

MOTOR CONTROL & SWITCHGEAR PRODUCTS



MCG Industrial:

- Contactors
- Overloads
- Contactor Accessories
- Motor Starters

Crompton Controls:

- Motor Starters
- Contactors & Accessories
- Contactor Enclosures
- Variable Speed Drives

General Switchgear Products:

- Surface & Panel Mounted Isolators
- Changeover Switches
- Switch Fuses
- Relays Bases & Key Switches



INTRODUCTION

Since our inception over 30 years ago, we at MCG have built our reputation on providing a wide range of high quality industrial products. Products designed to satisfy the demands of specifiers, wholesalers, contractors and end users throughout the domestic, industrial and commercial markets.

MCG Industrial has established a strong presence in the UK and Ireland, Canada and the USA. Our aim is to capitalise on this strong trading position by focusing on key strategies, increasing our market share and expanding our range of industrial products. By utilising our expertise and delivering innovative and integrated solutions, we aim to fully meet the challenges set by our customers and deliver our objectives.

We carry a comprehensive range of almost 4,000 industrial products lines, all available in stock at our 60,000 square foot distribution and technical centre in Doncaster, South Yorkshire. This range is backed up by our unrivalled level of technical expertise and knowledge.



CONTENTS



MCG CONTACTORS

3 Pole Mini Contactors	3
3 Pole Contactors	3
4 Pole Contactors	4

MCG OVERLOADS

Overload Units	4
----------------------	---

MCG CONTACTOR ACCESSORIES

Replacement Coils for Contactors	4
Mechanical Interlock	5
Pneumatic Timers	5
Overload Mounting Brackets	5
Add-on Auxiliary Contact Blocks for Contactors - Front Mounting	5

MCG MOTOR STARTERS

Direct Online Starters without Isolator - Plastic Body	5
Direct Online Starters without Isolator - Metal Body	6

CROMPTON CONTACTORS

3 Pole Contactors	6-7
-------------------------	-----



4 Pole Contactors	7
-------------------------	---

CROMPTON CONTACTOR ACCESSORIES

Overload Units	8
Delay Timers	8
Auxiliary Contact Blocks for Contactors	8
Overload Mounting Brackets	8
Mechanical Interlocks	8
Replacement Coils for Contactors	9
Start Contact Block	9

CROMPTON CONTACTOR ENCLOSURES

Series3000 Metal Contactor Enclosures IP55	9
--	---

CROMPTON MOTOR STARTERS

Direct Online Motor Starters IP55	10-11
Direct Online Reversing Starter with Isolators IP55	11
Direct Online Reversing Starter without Isolators IP55	11-12
Star Delta Motor Starters	12-13
Series3000 Direct Online Starter with Isolators IP55	13
Star Delta DOL Motor Starter with Isolators	13

CROMPTON DC INJECTION BRAKE UNITS & ACCESSORIES

Direct Online Starters DC Injection Braking Units IP65	14
Star Delta DC Injection Break	14
DC Injection Brake Replacement Modules	14

CROMPTON MANUAL MOTOR STARTERS & ACCESSORIES

690V Manual Motor Starters	15
Surface Enclosure for CC Manual Motor Starters	15
415V Shunt Trip	15
Side Mount Auxiliary 1NO & 1NC Contact	15
Front Mounting Emergency Stop Button	15
Under Voltage Release	15

CROMPTON EASY SPEEDY VARIABLE SPEED DRIVES

230V Single Phase Variable Speed Drive IP54	16
400V Three Phase Variable Speed Drive IP54	16

CROMPTON MOTOR STARTERS

- COMBINATION REFERENCE CHART	17-18
-------------------------------------	-------

GETTING STARTED

How to Code a Standard Starter	19
--------------------------------------	----

MCG CONTACTORS

3 Pole Mini Contactors

Features:

- For use with motors, heating and lighting
- Max. Voltage rating: 660V
- Coil fitted as standard
- Cage type cable terminals
- Mounted: DIN rail or panel
- BS EN 60947-4-1



DL09-30-10-24V

Code	Ref No.	Contact Configuration	Auxiliary Contact	Coil Voltage	kW Rating	Metric hp	Current Rating AC1	Current Rating AC3
3 Pole. Dimensions: 53 mm[H] x 45 mm[W] x 58 mm[D]								
0462-8491	DL09-30-10 240V	3 NO	1 NO	240V AC	4 kW	5.5 hp	20A	9A
0462-8482	DL09-30-01 240V	3 NO	1 NC	240V AC	4 kW	5.5 hp	20A	9A

3 Pole Contactors

Features:

- Max. Voltage rating: 660V
- Coil fitted as standard
- Cage type cable terminals
- Mounted: DIN rail or panel
- BS EN 60947-4-1
- Use 'Ref No.' for compatible overloads on page 4



DL32-30-10-240V

Code	Ref No.	Contact Configuration	Auxiliary Contact	Coil Voltage	kW Rating	Metric hp	Current Rating AC1	Current Rating AC3
3 Pole: For use with motors, heating and lighting applications. Dimensions: 70 mm[H] x 45 mm[W] x 80 mm[D]								
0462-8743	DL9-30-10 240V	3 NO	1 NO	240V AC	4 kW	5.5 hp	20A	9A
0462-8746	DL9-30-10 415V	3 NO	1 NO	415V AC	4 kW	5.5 hp	20A	9A
Dimensions: 53 mm[H] x 45 mm[W] x 58 mm[D]								
0462-8482	DL9-30-01 240V	3 NO	1 NC	240V AC	4 kW	5.5 hp	20A	9A
Dimensions: 70 mm[H] x 45 mm[W] x 80 mm[D]								
0462-8530	DL12-30-10 110V	3 NO	1 NO	110V AC	5.5 kW	7.5 hp	25A	12A
0462-8533	DL12-30-10 240V	3 NO	1 NO	240V AC	5.5 kW	7.5 hp	25A	12A
0462-8557	DL18-30-01 240V	3 NO	1 NC	240V AC	9.3 kW	12.5 hp	32A	18A
Dimensions: 70 mm[H] x 45 mm[W] x 85 mm[D]								
1049-6095	DL18-30-10 24V	3 NO	1 NO	24V AC	9.3 kW	12.5 hp	32A	18A
0462-8563	DL18-30-10 110V	3 NO	1 NO	110V AC	9.3 kW	12.5 hp	32A	18A
0462-8566	DL18-30-10 240V	3 NO	1 NO	240V AC	9.3 kW	12.5 hp	32A	18A
0462-8569	DL18-30-10 415V	3 NO	1 NO	415V AC	9.3 kW	12.5 hp	32A	18A
Dimensions: 80 mm[H] x 56 mm[W] x 93 mm[D]								
1049-6098	DL25-30-10 24V	3 NO	1 NO	24V AC	11 kW	15 hp	40A	25A
0462-8647	DL25-30-10 110V	3 NO	1 NO	110V AC	11 kW	15 hp	40A	25A
0462-8650	DL25-30-10 240V	3 NO	1 NO	240V AC	11 kW	15 hp	40A	25A
0462-8653	DL25-30-10 415V	3 NO	1 NO	415V AC	11 kW	15 hp	40A	25A
Dimensions: 80 mm[H] x 56 mm[W] x 98 mm[D]								
0462-8662	DL32-30-10 110V	3 NO	1 NO	110V AC	15 kW	20 hp	50A	32A
0462-8665	DL32-30-10 240V	3 NO	1 NO	240V AC	15 kW	20 hp	50A	32A
0462-8668	DL32-30-10 415V	3 NO	1 NO	415V AC	15 kW	20 hp	50A	32A
Dimensions: 127 mm[H] x 75 mm[W] x 114 mm[D]								
0462-8716	DL50-30-11 240V	3 NO	1 NO + 1 NC	240V AC	25 kW	33 hp	80A	50A

MCG CONTACTORS

4 Pole Contactors

Features:

- Simple and robust construction
- High mechanical and electrical life
- Coil fitted as standard
- For DIN rail or panel mounting
- Cage type cable terminals



DL9-40-00-240V



DL25-22-00 240V

Code	Ref No.	Contact Configuration	Coil Voltage	kW Rating	Metric hp	Current Rating AC1	Current Rating AC3
Dimensions: 70 mm[H] x 45 mm[W] x 80 mm[D]							
0791-5309	DL9-40-00 240V	4 NO	240V	4 kW	5.5 hp	20A	9A
Dimensions: 70 mm[H] x 45 mm[W] x 80 mm[D]							
1611-6445	DL12-40-00 240V	4 NO + 1 NC	240V AC	5.5 kW	5.5 hp	25A	12A
Dimensions: 80 mm[H] x 56 mm[W] x 93 mm[D]							
0791-5267	DL25-22-00 240V	2 NO + 2 NC	240V AC	11 kW	15 hp	40A	25A
0791-5276	DL25-40-00 240V	4 NO	240V AC	11 kW	15 hp	40A	25A
Dimensions: 127 mm[H] x 75 mm[W] x 114 mm[D]							
0791-5282	DL40-22-00 240V	2 NO + 2 NC	240V AC	22 kW	30 hp	60A	40A
1611-6454	DL40-40-00 240V	4 NO	240V AC	22 kW	30 hp	60A	40A
Dimensions: 127 mm[H] x 75 mm[W] x 114 mm[D]							
1611-6457	DL50-04-00 240V	4 NC	240V AC	25 kW	33 hp	80A	50A
0791-5291	DL50-40-00 240V	3 NO	240V AC	45 kW	60 hp	125A	80A

MCG OVERLOADS

Overload Units

Suitable for Direct On-Line applications.

Features:

- Conforms to IEC/EN 60947-4-1
- Manual/automatic reset
- Red stop plunger
- Adjustable overload range
- 1 NO and 1 NC auxiliary as standard
- Suitable for direct mounting onto contactor



DL2-1.6



DL2-40

Code	Ref No.	Rating Amps	
		From	To
Dimensions: 47 mm[H] x 44 mm[W] x 90 mm[D]			
0462-8584	DL2-1	0.63A	1A
0462-8587	DL2-1.6	1A	1.6A
0462-8602	DL2-2.5	1.6A	2.5A
0462-8611	DL2-4	2.4A	4A
0462-8620	DL2-6	4A	6A
0462-8629	DL2-8	5.5A	8A
0462-8590	DL2-10	7A	10A
0462-8593	DL2-13	9A	13A
0462-8596	DL2-18	12A	18A
0462-8605	DL2-25	17A	25A
0462-8608	DL2-32	23A	32A
0462-8617	DL2-50	37A	50A

MCG CONTACTOR ACCESSORIES

Replacement Coils for Contactors

Features:

- Complete with 1 x A1 and 2 x A2 connections



DL32-C 24V



DL12-C 415V

Code	Ref No.	Description
Dimensions: 70 mm[H] x 42 mm[W] x 32 mm[D]		
0462-8545	DL12-C 24V	Coil to fit DL9-18
0462-8539	DL12-C 110V	Coil to fit DL9-18
0462-8542	DL12-C 240V	Coil to fit DL9-18
0462-8548	DL12-C 415V	Coil to fit DL9-18
Dimensions: 78 mm[H] x 52 mm[W] x 370 mm[D]		
0462-8677	DL32-C 24V	Coil to fit DL25-32
0462-8671	DL32-C 110V	Coil to fit DL25-32
0462-8674	DL32-C 240V	Coil to fit DL25-32
0462-8680	DL32-C 415V	Coil to fit DL25-32

MCG CONTACTOR ACCESSORIES

Mechanical Interlock

Features:

- For use with DL9 to 32 contactors only
- Only suitable for AC coiled contactors



Code	Ref No.	Description
0462-8779	MI09-32	For use with DL9 to 32A

Pneumatic Timers

Features:

- For use with DL9 to 32 contactors only
- Only suitable for AC coiled contactors



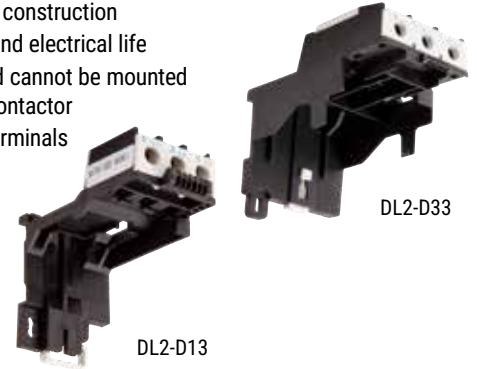
DL2-D22

Code	Ref No.	Description
0462-8635	DL2-D22	Pneumatic Timer 0.1 - 30 Secs On-Delay
0462-8656	DL3-D22	Pneumatic Timer 0.1 - 30 Secs Off Delay

Overload Mounting Brackets

Features:

- Simple and robust construction
- High mechanical and electrical life
- Use when overload cannot be mounted directly onto the contactor
- Cage type cable terminals



Code	Ref No.	Description
0462-8632	DL2-D13	For use with DL2-0.16 to 25A thermal overload relays
0462-8644	DL2-D33	For use with DL2-40 to 80A thermal overload relays

Add-on Auxiliary Contact Blocks for Contactors - Front Mounting

Features:

- 10A Current rating
 - Simple and robust construction
 - High mechanical and electrical life
 - For front mounting onto the DL range of contactors
 - Cage type cable terminals
 - IEC 60947-5-1
- Please Note:** Not suitable for use on DL09 mini contactors

Code	Ref No.	Description	Dimensions (mm)		
			W	H	D
0462-8497	DL1-02	2 NC Fits DL9 to DL25	18	50	37
0462-8500	DL1-11	1 NO + 1 NC DL9 to DL25	24	50	39
0462-8506	DL1-20	2 NO DL9 to DL25	18	50	37
0462-8509	DL1-22	2 NO + 2 NC DL9 to DL25	44	50	37
0462-8512	DL1-31	3 NO + 1 NC DL9 to DL25	44	50	37
0462-8515	DL1-40	4 NO DL9 to DL25	44	50	37



DL1-11



DL1-20



DL1-40

MCG MOTOR STARTERS

Direct On-line Motor Starters without Isolator - Plastic Body

Single and 3 Phase Plastic DOL Starters, suitable for applications where a metal starter is not suitable, eg: dockside areas, poultry sheds, chemical works etc.

Features

- IP55 rated
- Conforms to BS 60947
- Multiple Cable Entries
- Supplied with DIN Rail mounted Pre-wired Contactor
- Robust Plastic Enclosure with Start/Stop Push Buttons
- Not supplied with overload - available separately, see page 4

Code	Ref No.	Voltage	Phase	Maximum Overload Rating	kW	Metric hp
Dimensions: 184 mm[H] x 103 mm[W] x 134 mm[D]						
0462-8686	DL4 240V	240V	Single	25A	4 kW	5.5
0462-8518	DL11 415V	415V	Three	25A	11 kW	15



DL4_240V

CROMPTON CONTACTORS

3 Pole Contactors

Features:

- Simple and robust construction
- High mechanical and electrical life
- Coil fitted as standard
- For DIN rail or panel mounting
- Cage type cable terminals



CC0940-230V



CC0901-230V



CC3210 400V



Code	Ref No.	Contact Configuration	Auxiliary Contact	Coil Voltage	kW Rating	Hp Rating	Current Rating AC1	Current Rating AC3	Dimensions (mm)		
									W	H	D
5.5 kW Contactor											
1037-1037	CC0901 230V	3 NO	1 NC	230V AC	5.5 kW	7.5 hp	25A	12A	45	74	80
1037-1040	CC0901 400V	3 NO	1 NC	400V AC	5.5 kW	7.5 hp	25A	12A	45	74	80
1037-1052	CC0910 24V	3 NO	1 NO	24V AC	5.5 kW	7.5 hp	25A	12A	45	74	80
1037-1061	CC0910 48V	3 NO	1 NO	48V AC	5.5 kW	7.5 hp	25A	12A	45	74	80
1037-1043	CC0910 110V	3 NO	1 NO	110V AC	5.5 kW	7.5 hp	25A	12A	45	74	80
1037-1046	CC0910 230V	3 NO	1 NO	230V AC	5.5 kW	7.5 hp	25A	12A	45	74	80
1037-1055	CC0910 400V	3 NO	1 NO	400V AC	5.5 kW	7.5 hp	25A	12A	45	74	80
7.5 kW Contactor											
1037-1076	CC1210 24V	3 NO	1 NO	24V AC	7.5 kW	10 hp	25A	18A	45	74	80
1037-1082	CC1210 48V	3 NO	1 NO	48V AC	7.5 kW	10 hp	25A	18A	45	74	80
1033-3267	CC1210 110V	3 NO	1 NO	110V AC	7.5 kW	10 hp	25A	18A	45	74	80
1037-1070	CC1210 230V	3 NO	1 NO	230V AC	7.5 kW	10 hp	25A	18A	45	74	80
1037-1079	CC1210 400V	3 NO	1 NO	400V AC	7.5 kW	10 hp	25A	18A	45	74	80
11 kW Contactor											
1033-3282	CC1810 24V	3 NO	1 NO	24V AC	11 kW	15 hp	32A	25A	45	74	80
1033-3276	CC1810 110V	3 NO	1 NO	110V AC	11 kW	15 hp	32A	25A	45	74	80
1033-3279	CC1810 230V	3 NO	1 NO	230V AC	11 kW	15 hp	32A	25A	45	74	80
1033-3285	CC1810 400V	3 NO	1 NO	400V AC	11 kW	15 hp	32A	25A	45	74	80
1033-3273	CC1801 400V	3 NO	1 NC	400V AC	11 kW	15 hp	32A	25A	45	74	80
15 kW Contactor											
2559-8947	CC2501 230V	3 NO	1 NC	230V AC	15 kW	20 hp	40A	32A	56	84	93
1037-1085	CC2501 400V	3 NO	1 NC	400V AC	15 kW	20 hp	40A	32A	56	84	93
1037-1097	CC2510 24V	3 NO	1 NO	24V AC	15 kW	20 hp	40A	32A	56	84	93
1037-1088	CC2510 110V	3 NO	1 NO	110V AC	15 kW	20 hp	40A	32A	56	84	93
1037-1091	CC2510 230V	3 NO	1 NO	230V AC	15 kW	20 hp	40A	32A	56	84	93
1037-1100	CC2510 400V	3 NO	1 NO	400V AC	15 kW	20 hp	40A	32A	56	84	93
18.5 kW Contactor											
1037-1115	CC3210 24V	3 NO	1 NO	24V AC	18.5 kW	25 hp	50A	40A	56	84	98
1037-1106	CC3210 110V	3 NO	1 NO	110V AC	18.5 kW	25 hp	50A	40A	56	84	98
1037-1109	CC3210 230V	3 NO	1 NO	230V AC	18.5 kW	25 hp	50A	40A	56	84	98
1037-1118	CC3210 400V	3 NO	1 NO	400V AC	18.5 kW	25 hp	50A	40A	56	84	98
22 kW Contactor											
1037-1130	CC4011 24V	3 NO	1 NO + 1 NC	24V AC	22 kW	30 hp	60A	40A	75	127	114
1037-1124	CC4011 110V	3 NO	1 NO + 1 NC	110V AC	22 kW	30 hp	60A	40A	75	127	114
1037-1127	CC4011 230V	3 NO	1 NO + 1 NC	230V AC	22 kW	30 hp	60A	40A	75	127	114
1037-1133	CC4011 400V	3 NO	1 NO + 1 NC	400V AC	22 kW	30 hp	60A	40A	75	127	114

Continued...

CROMPTON CONTACTORS

3 Pole Contactors continued...

Features:

- Simple and robust construction
- High mechanical and electrical life
- Coil fitted as standard
- For base mounting
- Cage type cable terminals



CC4011 400V



CC6511 230V



Code	Ref No.	Contact Configuration	Auxiliary Contact	Coil Voltage	kW Rating	Hp Rating	Current Rating AC1	Current Rating AC3	Dimensions (mm)		
									W	H	D
30 kW Contactor											
1037-1142	CC5011 24V	3 NO	1 NO + 1 NC	24V AC	30 kW	40 hp	80A	65A	75	127	114
1037-1139	CC5011 230V	3 NO	1 NO + 1 NC	230V AC	30 kW	40 hp	80A	65A	75	127	114
1037-1145	CC5011 400V	3 NO	1 NO + 1 NC	400V AC	30 kW	40 hp	80A	65A	75	127	114
37 kW Contactor											
1037-1151	CC6511 24V	3 NO	1 NO + 1 NC	24V AC	37 kW	50 hp	80A	80A	75	127	114
1033-3291	CC6511 110V	3 NO	1 NO + 1 NC	110V AC	37 kW	50 hp	80A	80A	75	127	114
1037-1148	CC6511 230V	3 NO	1 NO + 1 NC	230V AC	37 kW	50 hp	80A	80A	75	127	114
1037-1154	CC6511 400V	3 NO	1 NO + 1 NC	400V AC	37 kW	50 hp	80A	80A	75	127	114
55 kW Contactor											
1037-1160	CC8011 24V	3 NO	1 NO + 1 NC	24V AC	55 kW	75 hp	125A	105A	85	127	125
1033-3294	CC8011 110V	3 NO	1 NO + 1 NC	110V AC	55 kW	75 hp	125A	105A	85	127	125
1037-1157	CC8011 230V	3 NO	1 NO + 1 NC	230V AC	55 kW	75 hp	125A	105A	85	127	125
1037-1163	CC8011 400V	3 NO	1 NO + 1 NC	400V AC	55 kW	75 hp	125A	105A	85	127	125

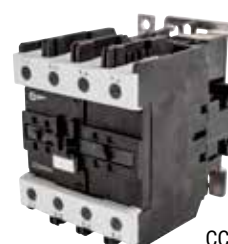
4 Pole Contactors

Features:

- Simple and robust construction
- High mechanical and electrical life
- Coil fitted as standard
- For base mounting
- Cage type cable terminals



CC2540-230V



CC8040-230V



Code	Ref No.	Contact Configuration	Coil Voltage	kW Rating	Hp Rating	Current Rating AC1	Current Rating AC3	Dimensions (mm)			
								W	H	D	
3.7 kW Contactor											
1655-4385	CC0940 230V	4 NO	230V AC	3.7 kW	5.5 hp	25A	9A	45	74	80	
5.6 kW Contactor											
1434-9391	CC1240 230V	3 NO	230V AC	5.6 kW	7.5 hp	25A	12A	45	74	80	
11 kW Contactor											
1434-9397	CC2540 230V	4 NO	230V AC	11 kW	15 hp	40A	25A	56	84	93	
22 kW Contactor											
1434-9400	CC4040 230V	4 NO	230V AC	22 kW	30 hp	60A	40A	85	127	114	
45 kW Contactor											
1434-9409	CC8040 230V	4 NO	230V AC	45 kW	60 hp	125A	80A	96	127	120	

CROMPTON CONTACTOR ACCESSORIES

Overload Units

Features:

- Manual reset
- Red stop plunger
- Adjustable overload range
- 1NO and 1NC auxiliary as standard
- Suitable for direct mounting onto contactor



CR09/0.25

Code	Ref No.	Rating Amps	
		From	To
Dimensions: 57 mm[H] x 44 mm[W] x 86 mm[D]			
1033-3303	CR09/0.25	0.16A	0.25A
1033-3306	CR09/0.4	0.25A	0.4A
1033-3309	CR09/0.63	0.4A	0.63A
1033-3315	CR09/1	0.63A	1A
1033-3318	CR09/1.6	1A	1.6A
1033-3330	CR09/2.5	1.6A	2.5A
1033-3333	CR09/4	2.5A	4A
1033-3339	CR09/6	4A	6A
1033-3342	CR09/8	5.5A	8A
1033-3321	CR09/10	7A	10A
1033-3348	CR12/13	10A	13A
1033-3354	CR16/18	13A	18A
1033-3360	CR25/25	18A	25A
Dimensions: 60 mm[H] x 50 mm[W] x 86 mm[D]			
1033-3363	CR32/32	23A	32A
1033-3366	CR32/40	28A	40A
1033-3372	CR40/40	30A	40A
1033-3375	CR63/50	38A	50A
Dimensions: 74 mm[H] x 63 mm[W] x 112 mm[D]			
1033-3378	CR63/57	48A	57A
1033-3381	CR63/66	57A	66A
1033-3384	CR80/80	66A	80A

Delay Timers

Features:

- Simple and robust construction
- High mechanical and electrical life
- For front mounting onto CC range of contactors
- Cage type cable terminals



CTD180

Code	Ref No.	Description
1033-3393	CTD180	Delay Off Timer 180 Seconds
1033-3399	CTD30	Delay Off Timer 30 Seconds
1033-3402	CTE180	Delay Off Timer 180 Seconds
1033-3408	CTE30	Delay Off Timer 30 Seconds
2797-3609	TI177	Star Delta Timer 110-230V, 0-10 Minutes
2797-3612	TI178	Star Delta Timer 400V, 0-100 Seconds

Auxiliary Contact Blocks for Contactors

Features:

- Simple and robust construction
- High mechanical and electrical life
- Cage type cable terminals



CBF02

CBF40

Code	Ref No.	Configuration	Dimensions (mm)		
			W	H	D
Top Mounting					
1037-1022	CBF02	2 NC	23	47	37
1033-3243	CBF04	4 NC	44	47	37
1033-3249	CBF11	1 NO 1 NC	23	47	37
1037-1025	CBF13	1 NO 3 NC	44	47	37
1037-1028	CBF20	2 NO	44	47	37
1037-1031	CBF22	2 NO 2 NC	44	47	37
1037-1034	CBF31	3 NO 1 NC	44	47	37
Side Mounting					
1033-3261	CBS11	1 NO 1 NC	44	47	37
1033-3264	CBS20	2 NO	11	72	72

Overload Mounting Brackets

Features:

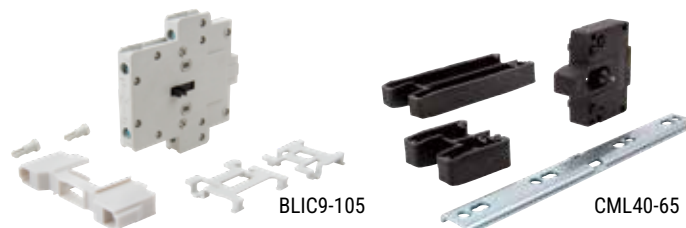
- Simple and robust construction
- High mechanical and electrical life
- For use with CR32 thermal overload relays
- Use when overload cannot be mounted directly onto the contactor
- Cage type cable terminals



CMB32

Code	Ref No.	Description
1182-3319	CMB09-25	For use with Free Standing CR09 to CR25 Overloads
1182-3325	CMB32	For use with Free Standing CR32 Overloads
1182-3328	CMB40-80	For use with Free Standing CR40 to CR80 Overloads

Mechanical Interlocks



BLIC9-105

CML40-65

Code	Ref No.	Description
1033-3297	CML09-32	For use with CC09 to 32 Contactors
1581-1633	CML40-65	For use with CC40 to 65 Contactors
0055-6819	BLIC9-105	For use with CCM65 to 105 Contactors

CROMPTON CONTACTOR ACCESSORIES

Replacement Coils for Contactors

Features:

- Complete with 1 x A1 and 2 x A2 connections

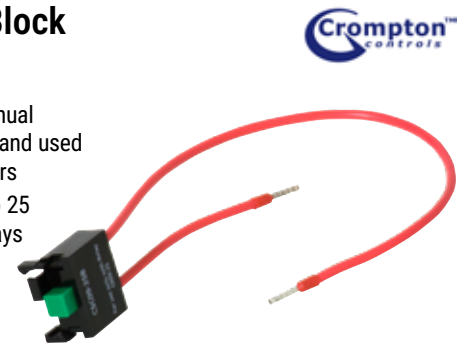


Code	Ref No.	Description
Dimensions: 69 mm[H] x 42 mm[W] x 30 mm[D]		
1033-3411	CX09-18 110V	Coil to fit CC09-CC18
1037-1181	CX09-18 230V	Coil to fit CC09-CC18
1037-1184	CX09-18 24V	Coil to fit CC09-CC18
1037-1187	CX09-18 400V	Coil to fit CC09-CC18
1037-1190	CX09-18 48V	Coil to fit CC09-CC18
Dimensions: 78 mm[H] x 52 mm[W] x 350 mm[D]		
1033-3414	CX25-32 110V	Coil to fit CC25-CC32
1037-1193	CX25-32 230V	Coil to fit CC25-CC32
1037-1199	CX25-32 400V	Coil to fit CC25-CC32
Dimensions: 108 mm[H] x 74 mm[W] x 39 mm[D]		
1033-3417	CX40-80 110V	Coil to fit CC40-CC80
1037-1205	CX40-80 230V	Coil to fit CC40-CC80
1037-1211	CX40-80 400V	Coil to fit CC40-CC80

Start Contact Block

Features:

- Start contact for manual overload relays only and used in Series 3000 starters
- For use with CR09 to 25 manual overload relays



Code	Ref No.	Suitable For
1033-3390	CSC09-25B	CR09 to 25 Overloads



CROMPTON CONTACTOR ENCLOSURES

Metal Contactor Enclosures

Features:

- Weatherproof IP55 rated
- Accepts CC09/CC12/CC18 or CC25 contactors
- DIN rail fitted
- Weatherproof IP55
- Pressed steel complete with removable lid
- Knockout cable entries



3EBS24



3EBS21

Code	Ref No.	Description	Size No.	Dimensions (mm)		
				W	H	D
1033-3213	3EBS21	DIN Rail fitted for CC09/CC12/CC18/CC25 or CC32 Contactors	Size 1	104	174	134
1037-0914	3EBS22	Chassis fitted accepting 2 x CC25 Contactors	Size 2	184	184	149
1037-0917	3EBS23	Chassis fitted accepting component combinations	Size 3	284	184	149
1037-0920	3EBS24	Chassis fitted accepting component combinations	Size 4	285	305	159

CROMPTON MOTOR STARTERS

Direct Online Motor Starters

Single and 3 Phase Pressed Steel Metal DOL Starters, complete with overload.
Suitable for applications such as factories, warehouses, machinery installations etc.

Features:

- Weatherproof IP55 rated
- Pressed steel complete with removable lid
- Standard coil voltages: 50/60Hz
- Surface mounting type: 3DL
- Built-in start/stop reset pushbuttons
- Hand reset thermal overloads
- Pre-wired and tested prior to despatch



3DL1EZS

Code	Ref No.	Main Contactor	Main Contactor kW Rating	Main Contactor Amps	Voltage	Overload Range	Overload Relay	Variation	Motor kW Rating	Motor Hp Rating	AC3 Approx FLC* Amps	Dimensions (mm)			
												W	H	D	
Standard 230V															
1037-0857	3DL1CZS10	CC09	5.5 kW	12A	230V	12A Max.	-	Standard	1.5 kW	2 hp	12A	104	174	134	
1033-2979	3DL1CFS10	CC09	5.5 kW	12A	230V	1.6 - 2.5A	CR09/2.5	Standard	0.12 kW	0.16 hp	1.7A	104	174	134	
1033-2985	3DL1CGS10	CC09	5.5 kW	12A	230V	2.5 - 4A	CR09/1	Standard	0.25 kW	0.33 hp	2.6A	104	174	134	
1033-2991	3DL1CHS10	CC09	5.5 kW	12A	230V	4 - 6A	CR09/6	Standard	0.56 kW	0.75 hp	5A	104	174	134	
1033-2997	3DL1CJS10	CC09	5.5 kW	12A	230V	5.5 - 8A	CR09/8	Standard	0.75 kW	1 hp	6.7A	104	174	134	
1033-3003	3DL1CKS10	CC09	5.5 kW	12A	230V	7 - 10A	CR09/10	Standard	1.1 kW	1.5 hp	9A	104	174	134	
1033-3009	3DL1CLS10	CC09	5.5 kW	12A	230V	10 - 13A	CR12/13	Standard	1.5 kW	2 hp	12A	104	174	134	
1033-3069	3DL2CMS10	CC12	7.5 kW	18A	230V	13 - 18A	CR16/18	Standard	2.2 kW	3 hp	17A	104	174	134	
1033-3072	3DL2CZS10	CC12	7.5 kW	18A	230V	18A Max.	CR32/32	Standard	2.2 kW	3 hp	17A	104	174	134	
1033-3087	3DL3CNS10	CC18	11 kW	25A	230V	18 - 25A	CR25/25	Standard	3.7 kW	5 hp	25A	104	174	134	
1581-1597	3DL4CCS10	CC25	15 kW	32A	230V	23 - 30A	CR32/32	Standard	4 kW	5.5 hp	27A	104	174	134	
With Isolator 230V															
1037-0854	3DL1CZI10	CC09	5.5 kW	12A	230V	12A Max.	-	with Isolator	1.5 kW	2 hp	12A	184	184	149	
1033-2970	3DL1CEI10	CC09	5.5 kW	12A	230V	1 - 1.6A	CR09/1.6	with Isolator	0.07 kW	0.08 hp	1.5A	184	184	149	
1033-2988	3DL1CHI10	CC09	5.5 kW	12A	230V	4 - 6A	CR09/6	with Isolator	0.56 kW	0.75 hp	5A	104	174	134	
1033-2994	3DL1CJI10	CC09	5.5 kW	1.2A	230V	5.5 - 8A	CR09/8	with Isolator	0.75 kW	1 hp	6.7A	104	174	134	
1033-3000	3DL1CKI10	CC09	5.5 kW	12A	230V	7 - 10A	CR09/10	with Isolator	1.1 kW	1.5 hp	9A	104	174	134	
1033-3006	3DL1CLI10	CC09	5.5 kW	12A	230V	10 - 13A	CR12/13	with Isolator	1.5 kW	2 hp	12A	184	184	149	
1037-0863	3DL2CZI10	CC12	7.5 kW	18A	230V	18A Max.	-	with Isolator	2.2 kW	3 hp	17A	184	184	149	
1033-3066	3DL2CMI10	CC12	7.5 kW	18A	230V	13 - 18A	CR16/18	with Isolator	2.2 kW	3 hp	17A	184	184	149	
1033-3084	3DL3CNI10	CC18	11 kW	25A	230V	18 - 25A	CR25/25	with Isolator	3 kW	4 hp	25A	184	184	149	
1043-5129	3DL4CCI10	CC25	15 kW	32A	230V	23 - 32A	CR32/32	with Isolator	4 kW	5.5 hp	27A	184	284	149	
Standard 400V															
1033-3060	3DL1EZS	CC09	5.5 kW	12A	400V	12A Max.	-	Standard	5.5 kW	7.5 hp	12A	104	174	134	
1494-0355	3DL1EDS	CC09	5.5 kW	12A	400V	0.63 - 1A	CR09/1	Standard	0.25 kW	0.33 hp	0.9A	184	184	149	
1033-3021	3DL1EES	CC09	5.5 kW	12A	400V	1 - 1.6A	CR09/1.6	Standard	0.56 kW	0.75 hp	1.6A	184	184	149	
1033-3027	3DL1EFS	CC09	5.5 kW	12A	400V	1.6 - 2.5A	CR09/2.5	Standard	0.75 kW	1 hp	1.8A	104	174	134	
1033-3033	3DL1EGS	CC09	5.5 kW	12A	400V	2.5 - 4A	CR09/4	Standard	1.5 kW	2 hp	3.4A	104	174	134	
1033-3039	3DL1EHS	CC09	5.5 kW	12A	400V	4 - 6A	CR09/6	Standard	2.2 kW	3 hp	5A	104	174	134	
1033-3045	3DL1EJS	CC09	5.5 kW	12A	400V	5.5 - 8A	CR09/8	Standard	3 kW	4 hp	6.5A	104	174	134	
1033-3051	3DL1EKS	CC09	5.5 kW	12A	400V	7 - 10A	CR09/10	Standard	4 kW	5.5 hp	8A	104	174	134	
1033-3057	3DL1ELS	CC09	5.5 kW	12A	400V	10 - 13A	CR12/13	Standard	5.5 kW	7.5 hp	11A	104	174	134	
1033-3081	3DL2EZS	CC12	7.5 kW	18A	400V	18A Max.	-	Standard	7.5 kW	10 hp	18A	104	174	134	
1033-3081	3DL2EZS	CC12	7.5 kW	18A	400V	18 - 25A	CR25/25	Standard	11 kW	15 hp	22A	104	174	134	
1033-3078	3DL2EMS	CC12	7.5 kW	18A	400V	13 - 18A	CR16/18	Standard	7.5 kW	10 hp	15A	104	174	134	
1033-3093	3DL3ENS	CC18	11 kW	25A	400V	18 - 25A	CR25/25	Standard	11 kW	15 hp	22A	104	174	134	
1187-7613	3DL4ECS	CC25	15 kW	32A	400V	23 - 32A	CR32/32	Standard	15 kW	20 hp	28A	184	184	149	
1581-1603	3DLA5EQS	CC32	18.5 kW	40A	400V	28 - 40A	CR32/40	Standard	18.5 kW	35 hp	36A	184	184	149	
1033-3111	3DL5ETS	CC40	26 kW	50A	400V	38 - 50A	CR63/50	Standard	26 kW	35 hp	48A	184	184	149	

Continued...

CROMPTON MOTOR STARTERS

Direct Online Motor Starters continued...



Code	Ref No.	Main Contactor	Main Contactor kW Rating	Main Contactor Amps	Voltage	Overload Range	Overload Relay	Variation	Motor kW Rating	Motor Hp Rating	AC3 Approx FLC* Amps	Dimensions (mm)			
												W	H	D	
With Isolator 400V															
1037-0866	3DL2EZI	CC18	11 kW	25A	400V	18A Max.	-	with Isolator	7.5 kW	10 hp	18A	184	184	149	
1037-0860	3DL1EZI	CC09	5.5 kW	12A	400V	12A Max.	-	with Isolator	5.5 kW	7.5 hp	12A	184	184	149	
1494-0352	3DL1EDI	CC09	5.5 kW	12A	400V	0.63 - 1A	CR09/1	with Isolator	0.25 kW	0.33 hp	0.9A	184	184	149	
1033-3018	3DL1EEI	CC09	5.5 kW	12A	400V	1 - 1.6A	CR09/1.6	with Isolator	0.37 kW	0.50 hp	1.3A	184	184	149	
1033-3024	3DL1EFI	CC09	5.5 kW	12A	400V	1.6 - 2.5A	CR09/2.5	with Isolator	0.75 kW	1 hp	1.8A	184	184	149	
1033-3030	3DL1EGI	CC09	5.5 kW	12A	400V	2.5 - 4A	CR09/4	with Isolator	1.1 kW	1.5 hp	2.6A	184	184	149	
1033-3036	3DL1EHI	CC09	5.5 kW	12A	400V	4 - 6A	CR09/6	with Isolator	2.2 kW	3 hp	5A	184	184	149	
1033-3042	3DL1EJI	CC09	5.5 kW	12A	400V	5.5 - 8A	CR09/8	with Isolator	3 kW	4 hp	6.5A	184	184	149	
1033-3048	3DL1EKI	CC09	5.5 kW	12A	400V	7 - 10A	CR09/10	with Isolator	3.7 kW	5 hp	8A	184	184	149	
1033-3054	3DL1ELI	CC09	5.5 kW	12A	400V	10 - 12A	CR12/13	with Isolator	5.5 kW	7.5 hp	11A	184	184	149	
1033-3075	3DL2EMI	CC12	7.5 kW	18A	400V	13 - 18A	CR16/18	with Isolator	7.5 kW	10 hp	15A	184	184	149	
1033-3090	3DL3ENI	CC18	11 kW	25A	400V	18 - 25A	CR25/25	with Isolator	10 kW	13.5 hp	20A	184	184	149	
1581-1600	3DL4ECI	CC25	15 kW	32A	400V	23 - 30A	CR32/32	with Isolator	15 kW	20 hp	28A	184	284	149	
1362-6988	3DLA5EQI	CC32	18.5 kW	40A	400V	28 - 40A	CR32/40	with Isolator	18.5 kW	25 hp	36A	305	285	159	
1033-3108	3DL5ETI	CC40	26 kW	50A	400V	32 - 50A	CR63/50	with Isolator	26 kW	35 hp	48A	305	285	159	

Direct Online Reversing Motor Starters

Single and 3 Phase Pressed Steel Metal DOL Starters, complete with overload. Suitable for applications such as factories, warehouses, machinery installations etc.



Features:

- Weatherproof IP55 rated
- Pressed steel complete with removable lid
- Standard coil voltages: 50/60Hz
- Surface mounting type: 3DR
- Built-in Forward / Stop Reset / Reverse reset pushbuttons
- Hand reset thermal overloads
- Pre-wired and tested prior to despatch



3DR1EZS

Code	Ref No.	Main Contactor	Main Contactor kW Rating	Main Contactor Amps	Voltage	Overload Rating	Overload Relay	Variation	Motor kW Rating	Motor Hp Rating	AC3 Approx FLC* Amps	Dimensions (mm)			
												W	H	D	
Standard 230V															
1494-0358	3DR1CZS10	CC09	5.5 kW	12A	230V	-	-	Standard	1.5 kW	2 hp	12A	184	184	149	
1033-3138	3DR1CHS	CC09	5.5 kW	12A	230V	4 - 6A	CR09/6	Standard	0.56 kW	0.75 hp	5A	184	184	149	
1033-3144	3DR1CJS	CC09	5.5 kW	12A	230V	5.5 - 8 A	CR09/8	Standard	0.75 kW	1 hp	6.7A	184	184	149	
1033-3150	3DR1CKS	CC09	5.5 kW	12A	230V	7 - 10A	CR09/10	Standard	1.1 kW	1.5 hp	9A	184	184	149	
1033-3156	3DR1CLS	CC09	5.5 kW	12A	230V	10 - 12A	CR12/13	Standard	1.5 kW	2 hp	12A	184	184	149	
With Isolator 230V															
1033-3120	3DR1CEI	CC09	5.5 kW	12A	230V	1 - 1.6A	CR09/1.6	with Isolator	0.1 kW	0.13 hp	1.5A	284	184	149	
1033-3126	3DR1CFI	CC09	5.5 kW	12A	230V	1.6 - 2.5A	CR09/2.5	with Isolator	0.18 kW	0.25 hp	2.1A	284	184	149	
1033-3129	3DR1CJI	CC09	5.5 kW	12A	230V	2.5 - 4A	CR09/4	with Isolator	0.37 kW	0.50 hp	3.6A	284	184	149	
1033-3135	3DR1CHI	CC09	5.5 kW	12A	230V	4 - 6A	CR09/6	with Isolator	0.56 kW	0.75 hp	5A	284	184	149	
1033-3141	3DR1CJI	CC09	5.5 kW	12A	230V	5.5 - 8A	CR09/8	with Isolator	0.75 kW	1 hp	6.7A	284	184	149	
1033-3147	3DR1CKI	CC09	5.5 kW	12A	230V	7 - 10A	CR09/10	with Isolator	1.1 kW	1.5 hp	9A	284	184	149	
1033-3153	3DRICLI	CC09	5.5 kW	12A	230V	10 - 12A	CR12/13	with Isolator	1.5 kW	2 hp	12A	284	184	149	

Continued...

CROMPTON MOTOR STARTERS

Direct Online Reversing Motor Starters continued...



Code	Ref No.	Main Contactor	Main Contactor kW Rating	Main Contactor Amps	Voltage	Overload Rating	Overload Relay	Variation	Motor kW Rating	Motor Hp Rating	AC3 Approx FLC* Amps	Dimensions (mm)			
												W	H	D	
Standard 400V															
1037-0893	3DR1EZS	CC09	5.5 kW	12A	400V	-	-	Standard	5.5 kW	7.5 hp	12A	184	184	149	
1033-3162	3DR1EES	CC09	5.5 kW	12A	400V	1 - 1.6A	CR09/1.6	Standard	0.56 kW	0.75 hp	1.6A	184	184	149	
1033-3168	3DR1EFS	CC09	5.5 kW	12A	400V	1.6 - 2.5A	CR09/2.5	Standard	0.75 kW	1 hp	1.8A	184	184	149	
1033-3174	3DR1EGS	CC09	5.5 kW	12A	400V	2.5 - 4A	CR09/4	Standard	1.5 kW	2 hp	3.4A	184	184	149	
1033-3180	3DR1EHS	CC09	5.5 kW	12A	400V	4 - 6A	CR09/6	Standard	2.2 kW	3 hp	5A	184	184	149	
1033-3198	3DR1ELS	CC09	5.5 kW	12A	400V	10 - 12A	CR12/13	Standard	5.5 kW	7.5 hp	11A	184	184	149	
With Isolator 400V															
1037-0890	3DR1EZI	CC09	5.5 kW	12A	400V	-	-	with Isolator	5.5 kW	7.5 hp	12A	284	184	149	
1033-3159	3DR1EEI	CC09	5.5 kW	12A	400V	1 - 1.6A	CR09/1.6	with Isolator	0.56 kW	0.75 hp	1.6A	284	184	149	
1033-3165	3DR1EFI	CC09	5.5 kW	12A	400V	1.6 - 2.5A	CR09/2.5	with Isolator	0.75 kW	1 hp	1.8A	284	184	149	
1033-3171	3DR1EGI	CC09	5.5 kW	12A	400V	2.5 - 4A	CR09/4	with Isolator	1.5 kW	2 hp	3.4A	284	184	149	
1033-3177	3DR1EJI	CC09	5.5 kW	12A	400V	5.5 - 8A	CR09/8	with Isolator	3 kW	4 hp	6.5A	284	184	149	
1033-3189	3DR1EKI	CC09	5.5 kW	12A	400V	7 - 10A	CR09/10	with Isolator	4 kW	5.5 hp	8A	284	184	149	
1033-3196	3DR1ELI	CC09	5.5 kW	12A	400V	10 - 12A	CR12/13	with Isolator	5.5 kW	7.5 hp	11A	284	184	149	

Star Delta Motor Starters



Features:

- Weatherproof IP55
- Wye-Delta connected
- Pressed steel complete with hinged door
- Standard coil voltages: 50/60Hz
- Surface mounting type: 3SD
- Built-in start/stop reset pushbuttons
- Hand reset thermal overloads
- Pre-wired and tested prior to despatch



3SD1EZS

Code	Ref No.	Main Contactor	Main Contactor kW Rating	Main Contactor Amps	Voltage	Overload Rating	Overload Relay	Variation	Motor kW Rating	Motor Hp Rating	AC3 Approx FLC* Amps	Dimensions (mm)			
												W	H	D	
Standard 400V															
1037-0971	3SD1EZS	CC09	11 kW	21A Max.	400V	-	-	Standard	11 kW	15 hp	21.3A	284	184	149	
1037-0953	3SD1EJS	CC09	11 kW	21A	400V	9.5 - 13.8A	CR09/8	Standard	5.5 kW	7.5 hp	11A	284	184	149	
1037-0959	3SD1EKS	CC09	11 kW	21A	400V	12 - 17A	CR09/10	Standard	7.5 kW	10 hp	15A	284	184	149	
1037-0965	3SD1ELS	CC09	11 kW	21A	400V	17 - 21A	CR12/13	Standard	10 kW	13.5 hp	21.3A	284	184	149	
1037-0992	3SD2EMS	CC12	15 kW	30A	400V	22 - 30A	CR16/18	Standard	15 kW	20 hp	28A	284	184	149	
1711-1146	3SD2EZS	CC12	15 kW	30A	400V	-	-	Standard	15 kW	20 hp	30A	284	184	149	
1037-1007	3SD3ENS	CC18	22 kW	43A	400V	31 - 43A	CR25/25	Standard	22 kW	30 hp	39A	284	184	149	
1581-1606	3SD05ETS	CC40	45kW	85A	400V	65 - 85A	CR63/50	Standard	45 kW	60 hp	79A	300	400	200	

CROMPTON MOTOR STARTERS

Star Delta Motor Starters



Features:

- Weatherproof IP55
- Wye-Delta connected
- Pressed steel complete with hinged door
- Standard coil voltages: 50/60Hz
- Surface mounting type: 3SD
- Built-in start/stop reset pushbuttons
- Hand reset thermal overloads
- Pre-wired and tested prior to despatch
- Complete with Isolator Switch



3SD2EMI

Code	Ref No.	Main Contactor	Main Contactor kW Rating	Main Contactor Amps	Voltage	Overload Rating	Overload Relay	Variation	Motor kW Rating	Motor Hp Rating	AC3 Approx FLC* Amps	Dimensions (mm)		
												W	H	D
With Isolator 400V														
1037-0968	3SD1EZI	CC09	11 kW	21A	400V	-	-	with Isolator	11 kW	15 hp	21.3A	284	184	149
1037-0956	3SD1EKI	CC09	11 kW	21A	400V	12 - 17A	CR09/10	with Isolator	7.5 kW	10 hp	15A	284	184	149
1037-0962	3SD1ELI	CC09	11 kW	21A	400V	17 - 21A	CR12/13	with Isolator	11 kW	13.5 hp	21.3A	284	184	149
1037-0989	3SD2EMI	CC12	15 kW	30A	400V	22 - 30A	CR16/18	with Isolator	15 kW	20 hp	28A	284	184	149
1037-1004	3SD3ENI	CC18	22 kW	43A	400V	31 - 43A	CR25/25	with Isolator	22 kW	30 hp	39A	284	184	149
1581-1624	3SD4ECI	CC25	30 kW	55A	400V	39 - 55A	CR32/32	with Isolator	30 kW	40 hp	52A	284	184	149

Did You Know....

SERIES EX

We supply the NEW Crompton Controls ATEX Approved Motor Starter range

- Standard DOL & Star Delta
- Zone 1 & Zone 21 applications
- EEx d II 2GD IP65 T6 up to 50°C
- Special custom solution on request



Contact the MCG Industrial sales team or your local BDM for further details

CROMPTON DC INJECTION BRAKE UNITS & ACCESSORIES

Direct Online Starters DC Injection Braking Units

Features:

- Start, protect and safely stop standard rotating machines
- Controlled stopping for compliance to PUWER 98
- IP55 dust-proof pressed steel enclosure
- Suitable for up to 12 stops per hour
- Compact surface mounting enclosure for easy retrofitting
- Complete with integral start and stop pushbuttons
- Simple braking time and torque settings
- Cannot be used for instant motor stopping applications



Code	Ref No.	AC3 Motor FLC Amps	Motor Rating kW	Motor Rating HP	Voltage	Dimensions (mm)		
						W	H	D
Typical Application: Dimension Saws (Panel Saws), Circular Saws								
1037-0881	3DPM2CMS10	16A	2.2 kW	3 hp	230V	184	184	149
Typical Application: Circular Saws and Tenon Machines								
1033-2955	3DCM1EHS	4.5A	2.2 kW	3 hp	400V	184	184	149
1033-2958	3DCM1EJS	6A	3 kW	4 hp	400V	184	184	149
1033-2961	3DCM1EKS	7.5A	4 kW	5.5 hp	400V	184	184	149
1033-2964	3DCM1ELS	12A	5.5 kW	7.5 hp	400V	184	184	149
1581-1594	3DCM2EMS	18A	7.5 kW	10 hp	400V	184	184	149

Star Delta DC Injection Break

Features:

- IP55 Dust proof pressed steel enclosures
- Compact surface mounting enclosures for easy retrofitting
- Complete with integral Start and Stop push buttons
- Simple braking time and torque setting
- Typical Applications: Panel & Rip Saws



Code	Ref No.	AC3 Motor FLC Amps	Motor Rating kW	Motor Rating HP	Voltage	Dimensions (mm)		
						W	H	D
1037-0908	3DYM1EJS	13A	5.5 kW	7.5 hp	400V	285	305	159
1037-3195	3DYM1EKS	17A	7.5 kW	10 hp	400V	285	305	159
1037-0588	3DY1ELS	22A	11 kW	15 hp	400V	400	500	210
1037-0902	3DY2EMS	29A	15 kW	20 hp	400V	400	500	210

400V Typical applications = Panel and Rip Saws

In 3DCM, 3DPM and 3DYM Type Controllers the 'M' signifies S10 Brake Module fitted.

For Crosscut Saws or similar, please omit the 'M' from the code to signify Open Power and Control Cards required to meet the increased stopping rates, these units are available as a special order.

S10 DC Injection Brake Replacement Modules

Features:

- Retrofit to integrate into existing controls
- Simple braking time and torque setting
- Direct on line or star delta systems
- Complies with the Health & Safety Commission Approved Codes of Practice (ACoP) guidelines and PUWER 98
- 230V Single or 400V Three Phase supplies



Code	Ref No.	Amps	Voltage	Phase	Dimensions (mm)		
					W	H	D
0577-6315	BR011	12A	415V	3	45	81	121

CROMPTON MANUAL MOTOR STARTERS & ACCESSORIES

690V Manual Motor Starters

Features:

- Provides motor protection
- Operating voltage 110V, 240V and 415V
- Features latching start button and spring return stop button
- Screw terminal connections
- DIN rail or enclosure mounting



CCMMS0.25

Code	Ref No.	Overload Rating	Dimensions (mm)		
			W	H	D
2057-0323	CCMMS0.25	0.16 - 0.25A	45	84	85.5
2057-0326	CCMMS0.4	0.25 - 0.4A	45	84	85.5
2057-0332	CCMMS0.63	0.4 - 0.63A	45	84	85.5
2057-0335	CCMMS1	0.63 - 1A	45	84	85.5
2057-0338	CCMMS1.6	1 - 1.6A	45	84	85.5
2057-0347	CCMMS2.5	1.6 - 2.5A	45	84	85.5
2057-0356	CCMMS4	2.5 - 4A	45	84	85.5
2057-0359	CCMMS6.3	4 - 6.3A	45	84	85.5
2057-0341	CCMMS10	6.3 - 10A	45	84	85.5
2057-0344	CCMMS16	10 - 16A	45	84	85.5
2057-0350	CCMMS20	16 - 20A	45	84	85.5
2057-0353	CCMMS25	20 - 25A	45	84	85.5

415V Shunt Trip

Features:

- Suitable for use with the CC range of manual motor starters
- Complete with flying leads to aid connection



Code	Ref No.	Voltage	Dimensions (mm)		
			W	H	D
2057-0290	CCAS415V	415V	42	44	15

Front Mounting Emergency Stop Button

Features:

- Suitable for use with the CC range of manual motor starters
- Supplied complete with button surround to mount onto CCGE1 enclosure unit
- Twist to release



Code	Ref No.	Suitable For	Dimensions (mm)			
			Dia	W	H	D
2057-0362	CCPV	CC Range of Manual Motor Starters	40	76	36	50

Surface Enclosure for CC Manual Motor Starters

Features:

- Suitable for use with the CC range of manual motor starters
- Clear rubber button covers for added protection
- Top and bottom knockout cable entries



Code	Ref No.	Suitable for	Dimensions (mm)		
			W	H	D
2057-0299	CCGE1	CC Range of Manual Motor Starters	80	145	95

Side Mount Auxiliary 1 NO and 1 NC Contact

Features:

- Screw terminal connections
- Side mounting



Code	Ref No.	Voltage	Dimensions (mm)		
			W	H	D
2057-0314	CCHS11	415V	10	82	75

Under Voltage Release

Features:

- Suitable for use with the CC range of manual motor starters
- Complete with flying leads to aid connection



CCUN110V

Code	Ref No.	Voltage	Dimensions (mm)		
			W	H	D
2057-0365	CCUN110V	110V	42	44	15
2057-0368	CCUN240V	240V	42	44	15
2057-0371	CCUN415V	415V	42	44	15

CROMPTON EASY SPEEDY VARIABLE SPEED DRIVES

230V Single Phase Variable Speed Drive IP54



Features:

- Enclosed inverter panel supplied ready to run
- Fitted as standard with the latest Emotron FDU and VS inverters
- Integral EMC filter and keypad/display
- Compact IP54 enclosure with ventilation fans and filters
- Mains supply and motor connection terminals
- Simple start and stop buttons
- Internally mounted energy saving potentiometer
- Note - all smaller sizes up to 1.1kW have vents, larger sizes also have a fan for heat dissipation



CC1P-0.37EVSD

Code	Ref No.	Current Rating	Power Rating	Suitable for	Dimensions (mm)		
					W	H	D
2179-6924	CC1P-0.37EVSD	2.4A	0.37 kW	For Controlling Three-Phase 230VAC Motors	300	300	200
2179-6939	CC1P-2.2EVSD	9.6A	2.2 kW	For Controlling Three-Phase 230VAC Motors	300	400	200

400V Three Phase Variable Speed Drive IP54



Features:

- Enclosed inverter panel supplied ready to run
- Fitted as standard with the latest Emotron FDU and VS inverters
- Integral EMC filter and keypad/display
- Compact IP54 enclosure with ventilation fans and filters
- Mains supply and motor connection terminals
- Simple start and stop buttons
- Internally mounted energy saving potentiometer
- Note - all smaller sizes up to 1.1kW have vents, larger sizes also have a fan for heat dissipation



CC3P-3EVSD



CC3P-0.55EVSD

Code	Ref No.	Current Rating	Power Rating	Suitable for	Dimensions (mm)		
					W	H	D
2179-6945	CC3P-0.55EVSD	1.8A	0.55kW	For Controlling Three-Phase 400VAC Motors	300	300	200
2179-6951	CC3P-1.1EVSD	3.2A	1.1 kW	For Controlling Three-Phase 400VAC Motors	300	400	200
2179-6954	CC3P-1.5EVSD	3.9A	1.5kW	For Controlling Three-Phase 400VAC Motors	300	400	200
2179-6957	CC3P-2.2EVSD	5.6A	2.2kW	For Controlling Three-Phase 400VAC Motors	300	400	200
2179-6960	CC3P-3EVSD	7.3A	3kW	For Controlling Three-Phase 400VAC Motors	300	400	200
2179-6963	CC3P-4EVSD	9.5A	4kW	For Controlling Three-Phase 400VAC Motors	300	400	200



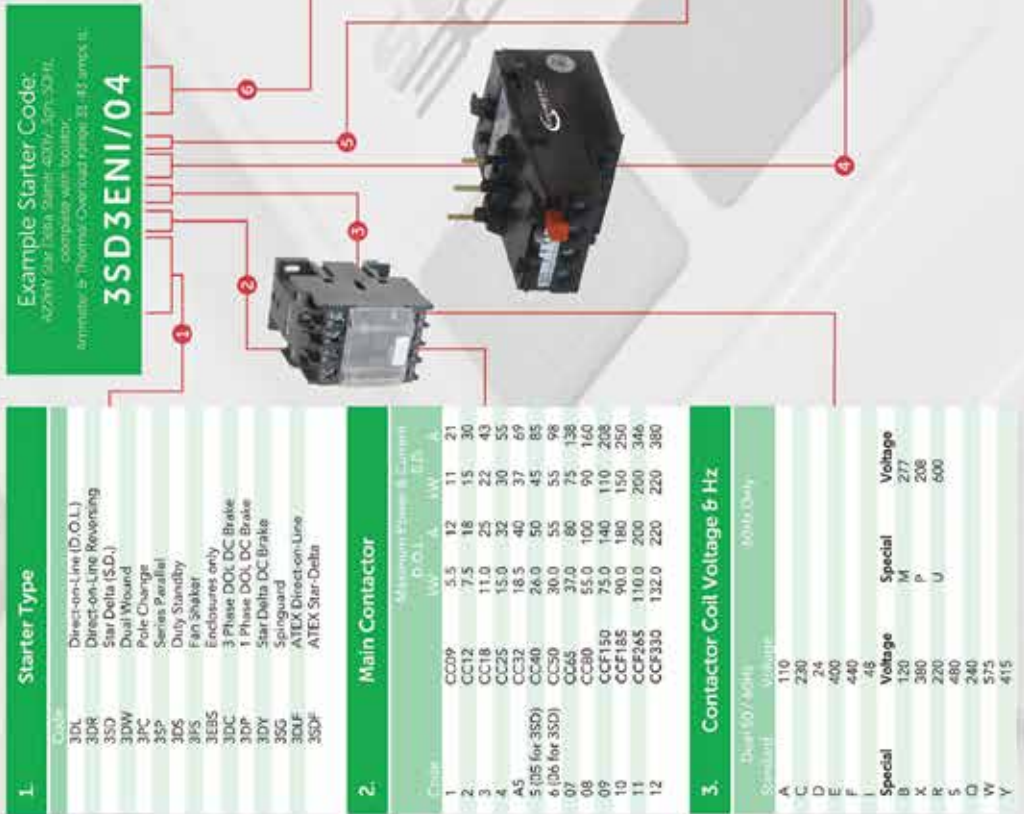
CROMPTON MOTOR STARTERS - COMBINATION REFERENCE CHART

Ref:	Voltage	Starter Body (No Overload)	Main Contactor	Contactor Rating kW	Contactor Rating Amps	Overload Relay	Overload Rating		Motor kW	Motor HP	AC3 Approx FLC	Enclosure Type	Page No.
							From	To					
Direct On-Line Motor Starters	No Isolator												
3DL1EDS	400V	3DL1EZS	CC09	5.5	12	CR09/1	0.61	1	0.25	0.33	0.9	Size 1	P 11
3DL1EES	400V	3DL1EZS	CC09	5.5	12	CR09/1.6	1	1.6	0.37	0.5	1.3	Size 1	P 11
3DL1EFS	400V	3DL1EZS	CC09	5.5	12	CR09/2.5	1.6	2.5	0.75	1	1.8	Size 1	P 11
3DL1EGS	400V	3DL1EZS	CC09	5.5	12	CR09/4	2.5	4	1.1	1.5	2.6	Size 1	P 11
3DL1EHS	400V	3DL1EZS	CC09	5.5	12	CR09/6	4	6	2.2	3	5	Size 1	P 11
3DL1EJS	400V	3DL1EZS	CC09	5.5	12	CR09/8	5.5	8	3	4	6.5	Size 1	P 11
3DL1EKS	400V	3DL1EZS	CC09	5.5	12	CR09/10	7	10	3.7	5	8	Size 1	P 11
3DL1ELS	400V	3DL1EZS	CC09	5.5	12	CR12/13	10	12	5.5	7.5	12	Size 1	P 11
3DL2EMS	400V	3DL1EZS	CC09	5.5	18	CR16/18	13	18	7.5	10	15	Size 1	P 11
3DL1CES10	230V	3DL1CZS10	CC09	5.5	12	CR09/1.6	1	1.6	0.07	0.08	1.1	Size 1	P 11
3DL1CFS10	230V	3DL1CZS10	CC09	5.5	12	CR09/2.5	1.6	2.5	0.12	0.16	1.7	Size 1	P 11
3DL1CGS10	230V	3DL1CZS10	CC09	5.5	12	CR09/4	2.5	4	0.25	0.33	2.6	Size 1	P 11
3DL1CHS10	230V	3DL1CZS10	CC09	5.5	12	CR09/6	4	6	0.56	0.75	5	Size 1	P 11
3DL1CJS10	230V	3DL1CZS10	CC09	5.5	12	CR09/8	5.5	8	0.75	1	6.7	Size 1	P 11
3DL1CKS10	230V	3DL1CZS10	CC09	5.5	12	CR09/10	7	10	1.1	1.5	9	Size 1	P 11
3DL1CLS10	230V	3DL1CZS10	CC09	5.5	12	CR12/13	10	12	1.5	2	12	Size 1	P 11
3DL2CMS10	230V	3DL2CZS10	CC12	7.5	18	CR16/18	13	18	2.2	3	17	Size 1	P 11
Direct On-Line Motor Starters	With Isolator												
3DL1EDI	400V	3DL1EZI10	CC09	5.5	12	CR09/1	0.63	1	0.25	0.33	0.9	Size 2	P 12
3DL1EEI	400V	3DL1EZI10	CC09	5.5	12	CR09/1.6	1	1.6	0.37	0.5	1.3	Size 2	P 12
3DL1EFI	400V	3DL1EZI10	CC09	5.5	12	CR09/2.5	1.6	2.5	0.75	1	1.8	Size 2	P 12
3DL1EGI	400V	3DL1EZI10	CC09	5.5	12	CR09/4	2.5	4	1.1	1.5	2.6	Size 2	P 12
3DL1EHI	400V	3DL1EZI10	CC09	5.5	12	CR09/6	4	6	2.2	3	5	Size 2	P 12
3DL1EJI	400V	3DL1EZI10	CC09	5.5	12	CR09/8	5.5	8	3	4	6.5	Size 2	P 12
3DL1EKI	400V	3DL1EZI10	CC09	5.5	12	CR09/10	7	10	3.7	5	8	Size 2	P 12
3DL1ELI	400V	3DL1EZI10	CC09	5.5	12	CR12/13	10	12	5.5	7.5	12	Size 2	P 12
3DL2EMI	400V	3DL1EZI10	CC09	5.5	18	CR16/18	13	18	7.5	10	15	Size 2	P 12
3DL1CEI10	230V	3DL1CZI10	CC09	5.5	12	CR09/1.6	1	1.6	0.07	0.08	1.1	Size 2	P 11
3DL1CFI10	230V	3DL1CZI10	CC09	5.5	12	CR09/2.5	1.6	2.5	0.12	0.16	1.7	Size 2	P 11
3DL1CGI10	230V	3DL1CZI10	CC09	5.5	12	CR09/4	2.5	4	0.25	0.33	2.6	Size 2	P 11
3DL1CHI10	230V	3DL1CZI10	CC09	5.5	12	CR09/6	4	6	0.56	0.75	5	Size 2	P 11
3DL1CJI10	230V	3DL1CZI10	CC09	5.5	12	CR09/8	5.5	8	0.75	1	6.7	Size 2	P 11
3DL1CKI10	230V	3DL1CZI10	CC09	5.5	12	CR09/10	7	10	1.1	1.5	9	Size 2	P 11
3DL1CLI10	230V	3DL1CZI10	CC09	5.5	12	CR12/13	10	12	1.5	2	12	Size 2	P 11
3DL2CMI10	230V	3DL2CZI10	CC12	7.5	18	CR16/18	13	18	2.2	3	17	Size 2	P 11
Direct Online Reversing Isolators	No Isolator												
3DR1EDS	400V	3DR1EZS	CC09	5.5	12	CR09/1	0.63	1	0.25	0.33	0.9	Size 2	P 13
3DR1EES	400V	3DR1EZS	CC09	5.5	12	CR09/1.6	1	1.6	0.37	0.5	1.3	Size 2	P 13
3DR1EFS	400V	3DR1EZS	CC09	5.5	12	CR09/2.5	1.6	2.5	0.75	1	1.8	Size 2	P 13
3DR1EGS	400V	3DR1EZS	CC09	5.5	12	CR09/4	2.5	4	1.1	1.5	2.6	Size 2	P 13
3DR1EHS	400V	3DR1EZS	CC09	5.5	12	CR09/6	4	6	2.2	3	5	Size 2	P 13
3DR1EJS	400V	3DR1EZS	CC09	5.5	12	CR09/8	5.5	8	3	4	6.5	Size 2	P 13
3DR1EKS	400V	3DR1EZS	CC09	5.5	12	CR09/10	7	10	3.7	5	8	Size 2	P 13
3DR1ELS	400V	3DR1EZS	CC09	5.5	12	CR12/13	10	12	5.5	7.5	11	Size 2	P 13

CROMPTON MOTOR STARTERS - COMBINATION REFERENCE CHART

Ref:	Voltage	Starter Body (No Overload)	Main Contactor	Contactor Rating kW	Contactor Rating Amps	Overload Relay	Overload Rating		Motor kW	Motor HP	AC3 Approx FLC	Enclosure Type	Page No.
Direct Online Reversing Isolators	No Isolator						From	To					
3DR1CES	230V	3DR1CZS10	CC09	5.5	12	CR09/1.6	1	1.6	0.07	0.08	1.1	Size 2	P 12
3DR1CFS	230V	3DR1CZS10	CC09	5.5	12	CR09/2.5	1.6	2.5	0.12	0.16	1.7	Size 2	P 12
3DR1CGS	230V	3DR1CZS10	CC09	5.5	12	CR09/4	2.5	4	0.25	0.33	2.6	Size 2	P 12
3DR1CHS	230V	3DR1CZS10	CC09	5.5	12	CR09/6	4	6	0.56	0.75	5	Size 2	P 12
3DR1CJS	230V	3DR1CZS10	CC09	5.5	12	CR09/8	5.5	8	0.75	1	6.7	Size 2	P 12
3DR1CKS	230V	3DR1CZS10	CC09	5.5	12	CR09/10	7	10	1.1	1.5	9	Size 2	P 12
3DR1CLS	230V	3DR1CZS10	CC09	5.5	12	CR12/13	10	12	1.5	2	12	Size 2	P 12
Direct Online Reversing Isolators	With Isolator												
3DR1EDI	400V	3DR1EZI	CC09	5.5	12	CR09/1	0.63	1	0.25	0.33	0.9	Size 3	P 13
3DR1EE1	400V	3DR1EZI	CC09	5.5	12	CR09/1.6	1	1.6	0.37	0.5	1.3	Size 3	P 13
3DR1EFI	400V	3DR1EZI	CC09	5.5	12	CR09/2.5	1.6	2.5	0.75	1	1.8	Size 3	P 13
3DR1EGI	400V	3DR1EZI	CC09	5.5	12	CR09/4	2.5	4	1.1	1.5	2.6	Size 3	P 13
3DR1EHI	400V	3DR1EZI	CC09	5.5	12	CR09/6	4	6	2.2	3	5	Size 3	P 13
3DR1EJI	400V	3DR1EZI	CC09	5.5	12	CR09/8	5.5	8	3	4	6.5	Size 3	P 13
3DR1EKI	400V	3DR1EZI	CC09	5.5	12	CR09/10	7	10	3.7	5	8	Size 3	P 13
3DR1ELI	400V	3DR1EZI	CC09	5.5	12	CR12/13	10	12	5.5	7.5	11	Size 3	P 13
3DR1CEI	230V	3DR1CZI	CC09	5.5	12	CR09/1.6	1	1.6	0.07	0.08	1.1	Size 3	P 12
3DR1CFI	230V	3DR1CZI	CC09	5.5	12	CR09/2.5	1.6	2.5	0.12	0.16	1.7	Size 3	P 12
3DR1CGI	230V	3DR1CZI	CC09	5.5	12	CR09/4	2.5	4	0.25	0.33	2.6	Size 3	P 12
3DR1CHI	230V	3DR1CZI	CC09	5.5	12	CR09/6	4	6	0.56	0.75	5	Size 3	P 12
3DR1CJI	230V	3DR1CZI	CC09	5.5	12	CR09/8	5.5	8	0.75	1	6.7	Size 3	P 12
3DR1CKI	230V	3DR1CZI	CC09	5.5	12	CR09/10	7	10	1.1	1.5	9	Size 3	P 12
3DR1CLI	230V	3DR1CZI	CC09	5.5	12	CR12/13	10	12	1.5	2	12	Size 3	P 12
Star Delta Motor Starters	No Isolator												
3SD1EFS	400V	3SD1EZS	CC09	5.5	12	CR09/2.5	2.7	4.3	1.5	2	3.4	Size 3	P 13
3SD1EGS	400V	3SD1EZS	CC09	5.5	12	CR09/4	4.3	6.9	2.2	3	5	Size 3	P 13
3SD1EHS	400V	3SD1EZS	CC09	5.5	12	CR09/6	6.9	10.4	3.7	5	8	Size 3	P 13
3SD1EJS	400V	3SD1EZS	CC09	5.5	12	CR09/8	9.5	13.8	5.5	7.5	11	Size 3	P 13
3SD1EKS	400V	3SD1EZS	CC09	5.5	12	CR09/10	12	17	7.5	10	15	Size 3	P 13
3SD1ELS	400V	3SD1EZS	CC09	5.5	12	CR12/13	17	21	9.3	12.5	18	Size 3	P 13
3SD1ELS	400V	3SD1EZS	CC09	5.5	12	CR12/13	17	21	11	15	21.3	Size 3	P 13
3SD2EMS	400V	3SD2EZS	CC12	7.5	18	CR16/18	22	30	12.5	17.5	25	Size 3	P 13
3SD2EMS	400V	3SD1EZS	CC09	5.5	12	CR16/18	22	30	15	20	28	Size 3	P 13
Star Delta Motor Starters	With Isolator												
3SD1EFI	400V	3SD1EZI	CC09	5.5	12	CR09/2.5	2.7	4.3	1.5	2	3.4	Size 3	P 14
3SD1EGI	400V	3SD1EZI	CC09	5.5	12	CR09/4	4.3	6.9	2.2	3	5	Size 3	P 14
3SD1EHI	400V	3SD1EZI	CC09	5.5	12	CR09/6	6.9	10.4	3.7	5	8	Size 3	P 14
3SD1EJI	400V	3SD1EZI	CC09	5.5	12	CR09/8	9.5	13.8	5.5	7.5	11	Size 3	P 14
3SD1EKI	400V	3SD1EZI	CC09	5.5	12	CR09/10	12	17	7.5	10	15	Size 3	P 14
3SD1ELI	400V	3SD1EZI	CC09	5.5	12	CR12/13	17	21	9.3	12.5	21.3	Size 3	P 14
3SD2EMI	400V	3SD2EZI	CC12	7.5	18	CR16/18	22	30	12.5	17.5	25	Size 3	P 14

Getting Started



1. Starter Type	Starters
3DL	Direct-on-Line (D.O.L.)
3DR	Direct-on-Line Reversing
3SD	Star Delta (S.D.)
3DW	Dual Wound
3PC	Pole Change
3SP	Series Parallel
3FS	Duty Standby
3FC	Flux Shaker
3DC	Enclosures only
3DP	3 Phase DOL DC Brake
3DY	1 Phase DOL DC Brake
3DF	Star Delta DC Brake
3SG	Springload
3DF	ATEX Direct-on-Line
3DF	ATEX Star-Delta

2. Main Contactor	Maximum Frame & Current	CB	A
Contactor	W	A	W
CC0P	5.5	12	11
CC12	7.5	18	15
CC18	11.0	25	22
CC25	15.0	32	30
CC32	18.5	40	37
CC40	24.0	50	45
CC50	30.0	55	55
CC65	37.0	80	75
CC80	55.0	100	90
CC150	75.0	140	110
CC185	90.0	180	150
CC265	110.0	200	200
CC330	132.0	220	220
CC380	160.0	250	250

3. Contactor Coil Voltage & Hz	Volts Only	
Standard	Special	
A	110	
C	230	
D	24	
E	400	
F	440	
I	48	
L	120	
M	277	
X	380	
P	220	
R	220	
S	480	
D	240	
W	575	
Y	415	

How to CODE a Standard Starter

- Method of Starting
- Contactor size to cover Motor Power (kW's) and Full Load Current
- Control Circuit Voltage and Frequency (Hz)
- Overload Range to cover Motor Full Load Current
Note: Different ratings for Direct-On-Line & Star Delta
- Starter Style
- Extras



4. Overload Range	D.O.L.	Star-Delta	Overload Rating	Full Contactor
X	0.16 - 0.25A		CR009/0.25	CC09 to CC32
A	0.25 - 0.4A		CR009/0.4	CC09 to CC32
B	0.4 - 0.63A		CR009/0.63	CC09 to CC32
D	0.63 - 1.0A		CR009/1	CC09 to CC32
E	1.0 - 1.6A		CR009/1.6	CC09 to CC32
F	1.6 - 2.5A	2.7 - 4.3A	CR009/2.5	CC09 to CC32
G	2.5 - 4.0A	4.3 - 6.9A	CR009/4	CC09 to CC32
H	4.0 - 6A	6.9 - 10.4A	CR009/6	CC09 to CC32
J	5.5 - 8A	9.5 - 13.8A	CR009/8	CC09 to CC32
K	7.0 - 10A	12 - 17A	CR009/10	CC09 to CC32
L	10 - 13A	17 - 22A	CR12/13	CC09 to CC32
M	13 - 18A	22 - 31A	CR16/18	CC09 to CC32
N	18 - 25A	31 - 43A	CR25/25	CC09 to CC32
C	23 - 32A	39 - 55A	CR32/32	CC25 to CC32
Q	28 - 40A	48 - 69A	CR32/40	CC25 to CC32
R	23 - 32A	39 - 55A	CR40/32	CC40 to CC65
S	30 - 40A	51 - 69A	CR40/40	CC40 to CC65
T	38 - 50A	65 - 86A	CR63/50	CC40 to CC65
U	48 - 57A	83 - 98A	CR63/57	CC40 to CC65
V	57 - 68A	98 - 114A	CR63/66	CC40 to CC65
W	63 - 80A	109 - 138A	CR80/80	CC40 to CC80
P	80 - 93A	138 - 161A	CR80/93	CC40 to CC80
Y	Thermister Protection			
Z	Without Overload Fitted (Wiring for loose O/L to be fitted)			

Higher Thermal Overload Ranges available on request



6. Extra Features Suffix Codes	Starters
01	Stop/Reset Only
02	Press to Run
03	Hand/Off/Auto Selector
04	Ammeter
05	Separate Control Circuit
06	Line to Neutral Control
07	Motor Running Lamp
08	Anti-Condensation Heater
09	Single Phase Mains Wiring
10	Single Phase & Press to Run
11	Single Phase & Hand/Off/Auto
12	Single Phase & Ammeter
13	Single Phase & Separate Control Circuit
14	Single Phase & Control Transformer
15	Single Phase & Motor Run Lamp
16	Single Phase & Anti-Condensation Heater
17	Single Phase & Motor Run Lamp
18	Single Phase & Anti-Condensation Heater

5. Variations	Starters/Variants
S	Standard
I	With Isolator
F	With Isolator and Mains Fuses / Switch Fuse*
L	With Mains Fuses
P	Plastic Enclosure
U	Un-enclosed (Interior Only)

*Hinged Door Enclosure - Switch Fuse Fitted



INTRODUCTION

Established for over 30 years MCG offer a range of products including Switchgear.

The Switchgear product range has been specifically designed to meet the demanding needs of today's panel builders and engineers whose requirements can range from a simple DIN rail terminal through to a complete panel solution. MCG products allow panel builders globally

to deliver significant advances through greater efficiency, reliability and performance, thereby increasing their competitive advantage and delivering the optimum panel solution.

MCG Control & Switchgear products deliver innovation and efficiency hand-in-hand with reliability and longevity.

CONTENTS

ISOLATOR SWITCHES

Enclosed Rotary Isolators IP65.....	21
Enclosed Rotary Isolators IP65 - Large Body Versions.....	21
Enclosed Rotary Isolators IP54 - Metal Body.....	21
Enclosed Rotary Isolators IP66.....	21
Enclosed Rotary Isolators DC IP66.....	22
CD Isolators Rating Table.....	23

ISOLATOR SWITCHES & ACCESSORIES

Salzer Panel Mounted Isolator Switches IP66.....	24
Salzer 1 NO 1 NC Auxiliary Contact.....	24
Salzer Metal Shaft Extensions.....	24
Salzer 3 Pole Terminal Shrouds.....	24
Salzer Add-On Switched Neutrals.....	25
Salzer Plastic Shaft Extensions.....	25
Salzer Auxiliary Contacts.....	25
Salzer Manual Changeover Switches IP66.....	25
Salzer 20A Front Mounted Cam Switches IP66.....	26
Salzer Reversing Switches IP65.....	26
MCG TP+N Metal Switch Fuses.....	26

FINDER PLUG-IN RELAYS

Relay Bases IP20.....	27
Sub-Miniature Plug-In Relays.....	27

PLUG-IN RELAYS & RELAY BASES

Miniature Changeover Plug-In Relays.....	28
MCG Relay Bases.....	28
MCG Changeover Plug-In Relays.....	28
MCG Changeover Plug-In Relays.....	28
Finder Changeover Plug-In Relays.....	29
Finder Plug-In Miniature Relay Base.....	29
Finder Changeover Plug-In Relays.....	29
MCG Miniature Changeover Plug-In Relays.....	29

RELAYS, BASES & TIMERS

Crompton 14 Pin / 4 Pole Changeover Miniature Plug-In Relay with Base.....	30
MCG 400V 3 Phase Under/Over Voltage Monitoring Relay.....	30
MCG 16A 7 Day / 24 Hour Time Switch.....	30
Finder 1 Pole AC/CD Relay Interface Module (Flare Relay).....	30
Finder 1 Pole DC Relay Interface Module (Flare Relay).....	30
Finder 8A Multifunction Timer.....	30

FINDER TIMERS

10 Day Modular Multi-Voltage Timers.....	31
7A 85 Series Miniature Changeover Plug-In Multifunction Timer.....	31

PUSHBUTTON STATIONS

Crompton Empty Pushbutton Stations IP65.....	31
MCG Empty Pushbutton Stations IP65.....	31
Made Up Momentary Start Pushbutton Stations IP65.....	32
MCG 1 Way Stop Push-button Station IP65.....	32

MCG KEY SWITCHES & PUSHBUTTON STATIONS

Made Up Key Pushbutton Stations IP65.....	32
Made Up Momentary Up/Down Pushbutton Stations IP65.....	32
Made Up Lock-In Pushbutton Stations IP65.....	33
Made Up Emergency Stop Key Release Push-button Station IP65.....	33
10A Standard Pushbutton Switches IP40.....	33
Made Up Pushbutton Stations IP65.....	33
Made Up Momentary Start / Stop Pushbutton Stations IP65.....	33
Made Up Momentary Start / Stop Twist Release Pushbutton Stations IP65.....	33

MCG PUSHBUTTON STATIONS

Insulated Plastic Foot Switch IP65.....	34
Blank Legend Plate for Pushbuttons.....	34
Emergency Stop Switches.....	34
Momentary Mushroom Head Emergency Stop Switches IP65.....	34

MCG KEY SWITCHES & CONTACT BLOCKS

Fireman's Switch IP54.....	35
Base Mounting Contact Blocks.....	35
Base Mounting Contact Blocks.....	35
Roller Shutter Door Key Switches IP54.....	35
Normally Open Contact Block IP20.....	35
Enclosure to suit 16A & 32A Roller Shutter.....	35

CONTACT BLOCKS, KEY SWITCHES & SELECTOR SWITCHES

Crompton 10A Contact Blocks.....	36
MCG 10A Emergency Stop Pushbuttons IP65.....	36
Crompton Emergency Stop Pushbutton IP65.....	36
Crompton Pushbutton Heads Only IP65.....	36
MCG 10A Emergency Stop Pushbuttons IP65.....	36

KEY SWITCHES & SELECTOR SWITCHES

MCG 10A Key & Rotary Switches IP65.....	37
MCG Mounting Coupler.....	37
Crompton 10A Key & Rotary Switches IP65.....	37
Crompton 10A Key & Rotary Switches IP65 - Head only.....	37

PUSHBUTTON SWITCHES

MCG 10A Standard Pushbutton Switches IP65.....	38
Crompton Standard Pushbuttons IP65.....	38
MCG Flush Momentary Pushbutton Head IP65.....	38
Crompton Pushbutton Heads Only IP65.....	38
MCG Illuminated Pushbuttons IP65.....	39
MCG 0.66W LED BA9s Lamps.....	39

INDICATOR LAMPS

MCG Panel Mount LED Indicators IP65.....	39
Crompton Indicator Light Assemblies LED IP65.....	39

WIELAND DIN RAIL & TERMINALS

DIN Rail / G-Type.....	40
Jumper Bars.....	40
DIN Rail Terminals.....	40

WIELAND TERMINALS

Miniature Terminals.....	41
Terminal Blocks.....	41
Universal End Stop.....	41
Stop Ends.....	41
End Plates & Partitions.....	41

WIELAND MULTIPOLE CONNECTORS & INSERTS

Multipole Connectors.....	42
---------------------------	----

WIELAND MARKER TAGS

Marking Tags.....	42-43
-------------------	-------

MCG PANEL TRANSFORMERS

230/400V Multiple Output Transformers.....	43
--	----

CROMPTON CONTACTORS & ACCESSORIES

Enclosed Contactors.....	43
--------------------------	----

MODULAR CONTACTORS

MCG Modular Contactors.....	44
Crompton Modular Contactors.....	44

LIMIT SWITCHES

Metal Limit Switches IP66.....	45
Plastic Limit Switches IP65.....	45



ISOLATOR SWITCHES

Enclosed Rotary Isolators IP65

Features:

- Flame retardant ABS plastic
- Easy access and switch removal
- Current rating: AC21 [resistive loads]
- Padlockable in the Off position
- Cable entry: 20 - 40A 20 mm[Ø] Knockouts
63 - 125A 25 mm[Ø] Knockouts
- Mounted: Surface
- IEC EN 60947-3



Code	Ref No.	Current Rating	Dimensions (mm)		
			W	H	D
3 Pole					
0576-1585	SMI20-3	20A	100	125	74
0433-1995	SMI25-3	25A	100	125	74
0433-2007	SMI32-3	32A	100	125	74
1462-6486	SMI40-3	40A	100	125	74
0433-2019	SMI63-3	63A	125	175	90
1462-6531	SMI80-3	80A	125	175	90

Code	Ref No.	Current Rating	Dimensions (mm)		
			W	H	D
4 Pole					
0576-1588	SMI20-4	20A	100	125	74
0433-2001	SMI25-4	25A	100	125	74
0433-2013	SMI32-4	32A	100	125	74
1462-6492	SMI40-4	40A	100	125	74
0433-2025	SMI63-4	63A	125	175	90
1462-6537	SMI80-4	80A	125	175	90
1462-6426	SMI100-4	100A	190	280	130
1462-6432	SMI125-4	125A	190	280	130

Enclosed Rotary Isolators IP65 - Large Body Versions

Features:

- Flame retardant ABS plastic
- Easy access and switch removal
- Current rating: AC21 [resistive loads]
- Padlockable in the Off position
- Cable entry: 20 - 40A 20 mm[Ø] Knockouts
- Mounted: Surface
- IEC EN 60947-3



SMI25-4L

Code	Ref No.	Current Rating	Dimensions (mm)		
			W	H	D
4 Pole					
1462-6450	SMI125-4L	25A	125	175	90
1462-6471	SMI132-4L	32A	125	175	90
1462-6498	SMI140-4L	40A	125	175	90

Enclosed Rotary Isolators IP54 - Metal Body

Features:

- Epoxy coated steel construction
- Knockout cable entry
- AC21 switch rating
- Padlockable in the Off position
- Mounted: Surface
- IEC EN 60947-1 & 3



SMI32-4M

Code	Ref No.	Current Rating	Dimensions (mm)		
			W	H	D
4 Pole					
1462-6474	SMI32-4M	32A	145	220	90
1462-6519	SMI63-4M	63A	145	220	90
1462-6429	SMI100-4M	100A	215	270	122

Enclosed Rotary Isolators IP66

Features:

- Insulated polycarbonate enclosure
- Current rating: AC21 [resistive loads]
- Forced open contacts
- Padlockable in the Off position:
3 Lock positions
- Cable entry: Multiple knockouts
- Mounted: Surface
- IEC EN 60947-3



4P63ASM

Code	Ref No.	Current Rating	Dimensions (mm)		
			W	H	D
3 Pole					
0013-3411	3P20ASM*	20A	80	100	65
0013-3432	3P25ASM	25A	100	125	85
0013-3453	3P32ASM	32A	100	125	85
0013-3468	3P40ASM	40A	115	175	100
0013-3483	3P63ASM	63A	115	175	100
0013-3498	3P80ASM	80A	160	250	95
0013-3381	3P100ASM	100A	160	250	95
4 Pole					
0013-3648	4P20ASM*	20A	80	100	65
0013-3672	4P32ASM	32A	100	125	85
0013-3681	4P40ASM	40A	115	175	100
0013-3690	4P63ASM	63A	115	175	100
0013-3699	4P80ASM	80A	160	250	95
0013-3633	4P100ASM	100A	160	250	95
6 Pole					
0013-4059	6P20ASM*	20A	80	100	85
0013-4065	6P32ASM	32A	160	250	95
0013-4068	6P63ASM	63A	190	280	130
8 Pole					
0013-4158	8P32ASM*	32A	160	250	95

*No Auxiliary available

ISOLATOR SWITCHES

Enclosed Rotary Isolators DC IP66



Features:

- Suitable for Photovoltaic - Isolators, Inverter Applications, DC Solar Pumps
- IP66
- Insulated enclosure flame retardant material
- Low smoke and halogen free
- Wiping contacts
- Padlockable for added security (up to 3 padlocks)
- Interlock Feature (Cover opens only in OFF position)
- Knockout cable entries



SMI16-4DC

Code	Ref No.	Current Rating		Dimensions (mm)		
		1500V	1000V	W	H	D
4 Pole						
2781-7849	SMI16-4DC	16A	20A	100	160	74
2781-7852	SMI20-4DC	20A	25A	100	160	74
2781-7855	SMI25-4DC	25A	32A	100	160	74
2781-7858	SMI32-4DC	32A	40A	100	160	74



ISOLATOR SWITCHES

Type	Configuration	Poles	IEC Rating 60947-3- DC21B & DC PV2			
			500V	700V	1000V	1500V
DC Isolators Rating Table						
SMI16-4DC		1 Pole	12	10	6	-
		2 Poles in series	16	16	-	-
		2 Poles in series + 2 Parallel	55	25	12	3
SM120-4DC		4 Poles in series	25	25	25	20
		1 Pole	16	12	8	-
		2 Poles in series	20	20	-	-
SM125-4DC		2 Poles in series + 2 Parallel	63	32	16	4
		4 Poles in series	32	32	32	25
		1 Pole	20	16	11	-
SM132-4DC		2 Poles in series	25	25	-	-
		2 Poles in series + 2 Parallel	72	35	20	6
		4 Poles in series	40	40	40	32

Switching Configurations - Examples

Type	2 Poles	2+2 Poles, 2+ Poles in series + 2 poles in parallel	4 Poles	4 Poles with Jumper Links	
Contacts Wiring Diagram					
Switching Example					

ISOLATOR SWITCHES & ACCESSORIES

Panel Mounted Isolator Switches IP66

Features:

- Switching angle: 90°
- Padlockable in the Off position
- Forced open contacts
- Door interlocked
- Accepts auxiliary contacts – sold separately
- BS EN 60947



Code	Ref No.	Current Rating	AC23 [415V]	Dimensions (mm)		
				W	H	D
3 Pole – Rear Mount – Plastic Shaft						
0013-3408	3P20ARMDI	20A	5.5 kW	67	70	92
0013-3429	3P25ARMDI	25A	7.5 kW	67	70	92
0013-3450	3P32ARMDI	32A	11 kW	67	70	92
0013-3465	3P40ARMDI	40A	15 kW	67	70	92
0013-3480	3P63ARMDI	63A	22 kW	67	72	92
0013-3495	3P80ARMDI	80A	30 kW	88	80	102
0013-3378	3P100ARMDI	100A	37 kW	88	80	102
3 Pole – Rear Mount – Metal Shaft						
0013-3393	3P20AMSRMDI	20A	5.5 kW	67	70	105
0013-3420	3P25AMSRMDI	25A	7.5 kW	67	70	105
0013-3441	3P32AMSRMDI	32A	11 kW	67	70	105
0013-3459	3P40AMSRMDI	40A	15 kW	67	70	105
0013-3474	3P63AMSRMDI	63A	22 kW	67	72	105
0013-3489	3P80AMSRMDI	80A	30 kW	67	80	120
0013-3372	3P100AMSRMDI	100A	37 kW	67	80	120
3 Pole – Front Mount						
0013-3399	3P20APM	20A	5.5 kW	67	70	58
0013-3423	3P25APM	25A	7.5 kW	67	70	58
0013-3444	3P32APM	32A	11 kW	67	70	58
0013-3462	3P40APM	40A	15 kW	67	70	58
0013-3477	3P63APM	63A	22 kW	67	72	58
0013-3492	3P80APM	80A	30 kW	88	80	73
0013-3375	3P100APM	100A	37 kW	88	80	73
4 Pole – Rear Mount – Plastic Shaft						
0013-3645	4P20ARMDI	20A	5.5 kW	67	70	92
0013-3657	4P25ARMDI	25A	7.5 kW	67	70	92
0013-3669	4P32ARMDI	32A	11 kW	67	70	92
0013-3678	4P40ARMDI	40A	15 kW	67	70	92
0013-3687	4P63ARMDI	63A	22 kW	67	72	92
0013-3696	4P80ARMDI	80A	30 kW	70	80	102
0013-3630	4P100ARMDI	100A	37 kW	70	80	102



1 NO 1 NC Auxiliary Contact

Features:

- Suitable for use with rear panel mount isolator switches
- Screw terminal connections
- Side mounting



Code	Ref No.	Current Rating	Contact Configuration	Suitable For
Suitable for Rear Mount Isolator Switches				
0023-2414	RH220/11	20 - 40A	1 NO + 1 NC	20 - 40A Switches
0013-7314	RH11	63A	1 NO + 1 NC	63 - 100A Switches

Metal Shaft Extensions

Features:

- For use with the AMSRMDI range only
- BS EN 60947

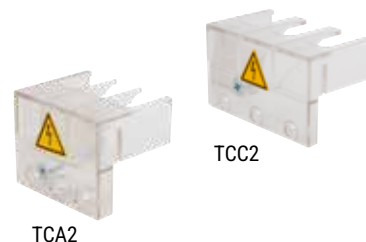


Code	Ref No.	Dimensions (mm)	
		L	D
0013-5544	ES90MM	90	8
0013-5532	ES190MM	190	8
0013-5535	ES290MM	290	8
0013-5538	ES390MM	390	8
0013-5541	ES490MM	490	8

3 Pole Terminal Shrouds

Features:

- Use with single pole shroud for 3 pole devices
- BS EN 60947



Code	Ref No.	Suitable For
3 Pole		
0048-9535	TCA2	20 - 40A
0545-0131	TCC2	63A

ISOLATOR SWITCHES & ACCESSORIES

Add-On Switched Neutrals



Features:

- Screw terminal connections
- Side mounting
- BS EN 60947



FP20AMSRM



FP80APM

Code	Ref No.	Current Rating
Suitable for Rear Mount Isolator Switches to fit AMSRMDI		
0013-5604	FP20AMSRM	20A
0035-1220	FP25AMSRM	25A
0013-5607	FP32AMSRM	32A
0013-5610	FP40AMSRM	40A
0013-5613	FP63AMSRM	63A
0013-5616	FP80AMSRM	80A
0013-5601	FP100AMSRM	100A
Suitable for Front Mount Isolator Switches to fit APM		
0048-8830	FP20APM	20A
0048-8833	FP25APM	25A
0048-8836	FP32APM	32A
0048-8839	FP40APM	40A
0048-8842	FP63APM	63A
0048-8845	FP80APM	80A
0048-8827	FP100APM	100A

Plastic Shaft Extensions



Features:

- Suitable for ARMDI range only
- Snap fit for easy installation
- Mount directly between isolator body and handle
- BS EN 60947



H2/25MMES

Includes:

- 4 x 25 mm Extensions

Code	Ref No.	Description
0013-5904	H2/25MMES	4 x 25mm 3P20-63 & 4P20-63 [4 pack]*
0013-5913	H4/25MMES	4 x 25mm 3P80-100A & 4P80-100A [4 pack]*

*Max 8 per switch

Auxiliary Contacts



Features:

- Suitable for APM range
- Screw terminal connections
- Side mounting
- BS EN 60947



AB20PM11

Code	Ref No.	Current Rating	Contact Configuration	Suitable For
Suitable for Front Mount Isolator Switches				
0013-4410	AB20PM11	10A	1 NO + 1 NC	20 - 40A Switches
0013-4407	AB100PM11	10A	1 NO + 1 NC	63 - 100A Switches

Manual Changeover Switches IP66



Features:

- Polycarbonate enclosure with forced open contacts
- Padlockable in the Off position
- Three position switch: 1, 2 and Off
- Interlocked front cover can only be removed in the Off position
- Cable entry: Knockouts top and side
- Mounted: Surface
- BS EN 60947-3



2P100ACOSM

Code	Ref No.	Current Rating [AC21]	Dimensions (mm)			
			W	H	D	
2 Pole						
0013-3207	2P20ACOSM	20A	80	100	65	
0013-3213	2P25ACOSM	25A	80	100	65	
0013-3216	2P32ACOSM	32A	160	250	95	
0013-3219	2P63ACOSM	63A	190	280	130	
0013-3201	2P100ACOSM	100A	190	280	130	
Code	Ref No.	Current Rating	AC23A kW Current [425V]	Dimensions (mm)		
				W	H	D
3 Pole						
0013-3390	3P20ACOSM	20A	5.5 kW	80	100	58
0013-3417	3P25ACOSM	25A	7.5 kW	160	250	95
0013-3438	3P32ACOSM	32A	11 kW	160	250	95
0013-3471	3P63ACOSM	63A	30 kW	190	280	130
0035-0917	3P100ACOSM	100A	37 kW	220	320	180
4 Pole						
0013-3642	4P20ACOSM	20A	5.5 kW	80	100	58
0013-3654	4P25ACOSM	25A	7.5 kW	160	250	95
0013-3666	4P32ACOSM	32A	11 kW	160	250	95
0013-3684	4P63ACOSM	63A	30 kW	190	280	130
0023-2339	4P100ACOSM	100A	37 kW	220	320	180

ISOLATOR SWITCHES

20A Front Mounted Cam Switches IP66

Features:

- Forced open contacts
- Four hole mounting
- BS EN 60947



Code	Ref No.	No. of Poles	Switch Positions	Legend	Dimensions (mm)		
					W	H	D
0013-7764	SP20A00PM	1	2	0-1	48	48	47
0013-7761	SP20AHOAPM	1	3	Hand - 0 - Auto	48	48	47
0013-7752	SP20A3SPM	1	4	0-1-2-3	48	48	47
0013-3210	2P20A00PM	2	2	0-1	48	48	47
0013-3396	3P20A00PM	3	2	0-1	48	48	60
0013-3204	2P20ACOPM	2	3	1-0-2	48	48	60

Reversing Switches IP65

Features:

- Insulated polycarbonate enclosure
- Padlockable
- Three position switch: Off, forward and reverse
- Forced open contacts
- Cable entry: Knockouts top and bottom
- Mounted: Surface
- BS EN 60947-3



Code	Ref No.	Current Rating	AC23 [415V]	Dimensions (mm)		
				W	H	D
3 Pole						
0013-3402	3P20AREVSM	20A	5.5 kW	80	100	85
0013-3447	3P32AREVSM	32A	11 kW	100	125	133



TP+N Metal Switch Fuses

Features:

- Defeatable door interlocked handle
- Door earth lead fitted as standard
- Removable top and bottom gland plates
- Padlockable in the Off position
- Bureau Veritas, KEMA certified and CE approved
- BS EN 60947-1-3
- SF range IP41
- MCG SF range IP65

Includes:

- BS 88 Bolt-in fuses



MCGSF200TPN



MCGSF250TPN

Code	Ref No.	Current Rating	Dimensions (mm)		
			W	H	D
0013-2163	SF63SPN	63A	115	250	60
0013-2160	SF100SPN	100A	135	305	60
0013-7515	SF63TPN	63A	230	300	110
0013-7503	SF100TPN	100A	230	400	110
2453-6014	MCGSF200TPN	200A	400	500	200
2453-6017	MCGSF250TPN	250A	400	500	200
2453-6020	MCGSF315TPN	315A	600	800	300
2453-6023	MCGSF400TPN	400A	600	800	300



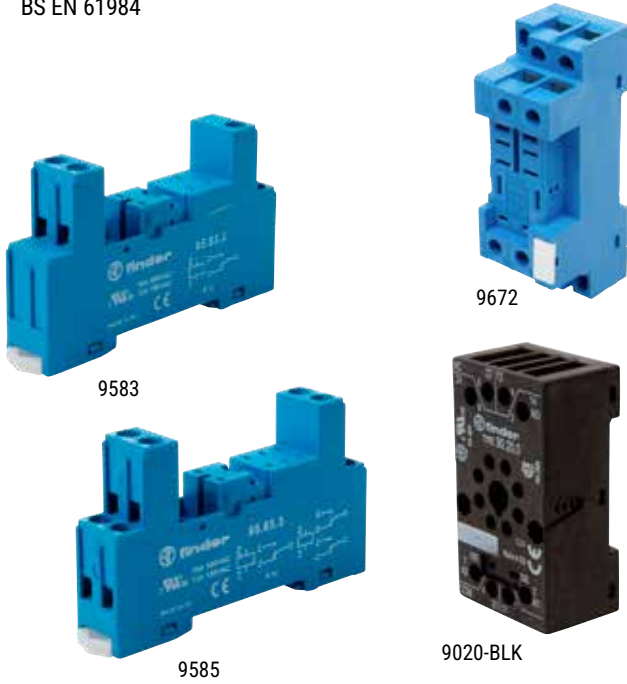
PLUG-IN RELAYS

Relay Bases IP20



Features:

- Mounted: Panel or 35 mm DIN rail [BS EN 60715]
- Supplied with metal retaining clip
- Operating temperature: -40 to 70°C
- BS EN 61984



Code	Ref No.	No. of Pins	Base For	Dimensions (mm)		
				W	H	D
Series 40						
0013-4179	9583	5	4031	15.5	81.9	46.8
0035-1130	9585	8	4052	15.5	81.9	46.8
0013-4182	9672	8	5632	15.5	81.9	46.8
Series 60						
2786-1835	9020SMA	8	6012	38	67	25.5
2786-1838	9021SMA	11	6013	38	67	25.5

Sub-Miniature Plug-In Relays



Features:

- Panel or 35mm DIN rail (EN 60715) mount
- Supplied with metal retaining clip



Code	Ref No.	Coil Voltage	No. of Pins	Current Rating	Dimensions (mm)		
					W	H	D
Series 40 – Single Pole							
0035-0959	4031-7012	12V DC	5	10A	12.4	29	25
0013-3510	4031-8024	24V AC	5	10A	12.4	29	25
0035-0962	4031-7024	24V DC	5	10A	12.4	29	25
0023-2336	4031-8230	230V AC	5	10A	12.4	29	25
0035-0983	4061-7012	12V DC	8	16A	12.4	29	25
0035-0989	4061-8024	24V AC	8	16A	12.4	29	25
0035-0986	4061-7024	24V DC	8	16A	12.4	29	25
0035-0995	4061-8230	230V AC	8	16A	12.4	29	25
Series 40 – 2 Pole							
0035-0968	4052-7012	12V DC	8	8A	12.4	29	25
0035-0974	4052-8024	24V AC	8	8A	12.4	29	25
0035-0971	4052-7024	24V AC	8	8A	12.4	29	25
0035-0977	4052-8110	110V AC	8	8A	12.4	29	25
0035-0980	4052-8230	230V AC	8	8A	12.4	29	25



PLUG-IN RELAYS & RELAY BASES

Miniature Changeover Plug-In Relays



5632-8230-0054

Features:

- Lockable test button
- Integral LED indicator or mechanical flag [see table]
- BS EN 61810-1

Series 55 or 56 base required for 35 mm DIN rail mounting [BS EN 60715] sold separately:

- 8 Pin [0013-4182] 9672
- 14 Pin [0248-4838] 9474

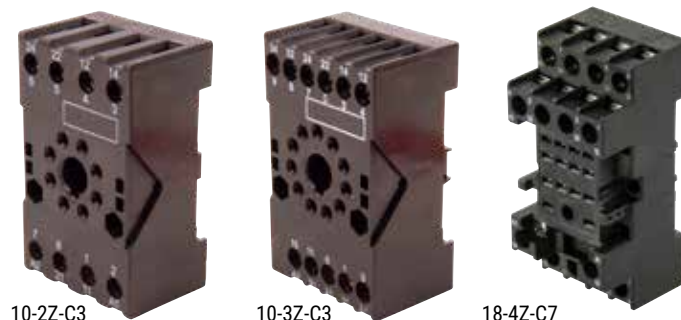
Code	Ref No.	Coil Voltage	No. of Pins	LED	Current Rating
Series 56 - 2 Pole					
0013-3858	5632-9012-0094	12V DC	8	Yes	12A
0013-3849	5632-8024-0054	24V AC	8	Yes	12A
0013-3861	5632-9024-0094	24V DC	8	Yes	12A
0013-3852	5632-8110-0054	110V AC	8	Yes	12A
0013-3855	5632-8230-0054	230V AC	8	Yes	12A
Series 55 - 4 Pole					
0013-3789	5534-8012-0054	12V AC	14	Yes	7A
0013-3807	5534-9012-0094	12V DC	14	Yes	7A
0013-3792	5534-8024-0040	24V AC	14	No	7A
0013-3795	5534-8024-0054	24V AC	14	No	7A
0013-3810	5534-9024-0094	24V DC	14	Yes	7A
0013-3798	5534-8110-0040	110V AC	14	No	7A
0013-3801	5534-8110-0054	110V AC	14	Yes	7A
0013-3804	5534-8230-0054	230V AC	14	No	7A

Relay Bases



Features:

- DIN rail mount socket
- Operating temperature: -40 to 70°C
- IP20
- Approvals UL and CE



Code	Ref No.	No. of Pins	To Fit	Current Rating
JQX10 Series				
0217-7308	10-2Z-C3	8	JQX	10A
0217-7311	10-3Z-C3	11	JQX	10A
JZX18 Series				
1829-8501	18-4Z-C7	14	JZX	10A

Changeover Plug-In Relays



JQX10-A012-2

Features:

- High electrical endurance
- Lockable push-to-test button, flag indicator and built-in LED as standard
- Industry standard round plug-in terminals
- RoHS Compliant
- BS EN 61810-1

Relay bases sold separately:

- 8 Pin [0217-7308] 10-2Z-C3

Code	Ref No.	No. of Pins	Current Rating
JQX10 Series - 2 Pole			
0217-7350	JQX10-A012-2	8	10A
0217-7338	JQX10-012-2	8	10A
0217-7356	JQX10-A024-2	8	10A
0217-7344	JQX10-024-2	8	10A
0217-7362	JQX10-A120-2	8	10A
0217-7368	JQX10-A240-2	8	10A

Changeover Plug-In Relays



JQX10-012-3

Features:

- High electrical endurance
- Lockable push-to-test button, flag indicator and built-in LED as standard
- Industry standard round plug-in terminals
- RoHS Compliant
- BS EN 61810-1

Relay bases sold separately:

- 11 Pin [0217-7311] 10-3Z-C3

Code	Ref No.	Coil Voltage	No. of Pins	Current Rating
JQX10 Series - 3 Pole				
0217-7341	JQX10-012-3	12V DC	11	10A
0217-7359	JQX10-A024-3	24V AC	11	10A
0217-7347	JQX10-024-3	24V DC	11	10A
0217-7365	JQX10-A120-3	110V AC	11	10A
0217-7371	JQX10-A240-3	240V AC	11	10A

PLUG-IN RELAYS & RELAY BASES

Changeover Plug-In Relays



Features:

- General purpose relay
- Lockable test button and mechanical flag indicator
- BS EN 61810-1
- Series 60 base required for 35 mm DIN rail mounting [BS EN 60715] sold separately 8 Pin [0013-4161] 9020-BLK



6012-8012-0040

Code	Ref No.	No. of Pins	Current Rating
Series 60 – 2 Pole			
0013-3894	6012-8012-0040	8	10A
0013-3906	6012-9012-0040	8	10A
0013-3897	6012-8024-0040	8	10A
0013-3909	6012-9024-0040	8	10A
0013-3912	6012-9048-0040	8	10A
0013-3900	6012-8110-0040	8	10A
0013-3903	6012-8230-0040	8	10A

Changeover Plug-In Relays



Features:

- General purpose relay
- Lockable test button and mechanical flag indicator
- BS EN 61810-1
- Series 60 base required for 35 mm DIN rail mounting [BS EN 60715] sold separately 11 Pin [0013-4164] 9021-BLK



6013-8012-0040

Code	Ref No.	Coil Voltage	No. of Pins	Current Rating
Series 60 – 3 Pole				
0013-3918	6013-8012-0040	12V AC 10A 3P	11	10A
0013-3933	6013-9012-0040	12V DC 10A 3P	11	10A
0013-3921	6013-8024-0040	24V AC 10A 3P	11	10A
0013-3936	6013-9024-0040	24V DC 10A 3P	11	10A
0013-3924	6013-8048-0040	48V AC 10A 3P	11	10A
0013-3930	6013-8230-0040	230V AC 10A 3P	11	10A

Plug-In Miniature Relay Base



Features:

- Socket for relay type 5534 (Series 55)
- Compatible with plug-in timers type 8504 (Series 85)
- Panel or 35mm DIN rail (EN 60715) mount
- Supplied with metal retaining clip



Code	Ref No.	No. of Pins	Current Rating
Series 85 - 4 Pole			
0248-4838	9474	14	10A

Miniature Changeover Plug-In Relays



Features:

- High electrical endurance
- Lockable push-to-test button, flag indicator and built-in LED as standard
- RoHS Compliant
- Approvals: UL / CUR, TUV and CQC



JZX18-012-4

Relay base sold separately: [1829-8501]

Code	Ref No.	Coil Voltage	No. of Pins	Current Rating
JZX18 Series – 4 Pole				
0481-5157	JZX18-012-4	12V DC	14	5A
0481-5163	JZX18-A024-4	24V AC	14	5A
0481-5160	JZX18-024-4	24V DC	14	5A
0481-5166	JZX18-A120-4	110V AC	14	5A
0481-5169	JZX18-A240-4	240V AC	14	5A



RELAYS, BASES & TIMERS

14 Pin / 4 Pole Changeover Miniature Plug-In Relay with Base



Features:

- 5A switching capacity
- 1.5kV dielectric strength between coil and contact
- 4 pole changeover contacts
- Contact material silver alloy
- RoHS compliant
- With lockable push to test button, flag indicator and built-in LED as standard
- Dust protected
- Approvals UL/CUR, TUV and CQC
- DIN Rail mounted socket included



CC14MR BASE 24VDCBP

Code	Ref No.	Description	Dimensions (mm)		
			W	H	D
4 Pole					
2235-9478	CC14MR BASE 24VACBP	14 Pin 24V AC 5A 4P	30.3	63	60
2235-9481	CC14MR BASE 24VDCBP	14 Pin 24V DC 5A 4P	30.3	63	60
2235-9475	CC14MR BASE 230VACBP	14 Pin 240V AC 5A 4P	30.3	63	60

400V 3 Phase Under / Over Voltage Monitoring Relay



Features:

- Supplied from monitored voltage
- Supplied from all 3 phases
- Monitors voltage in 3 phase set of voltage
- Upper and bottom voltage levels adjustable [output relay breaks]
- Adjustable time delay
- Red LED indication of fault
- Output contact: 1 x Changeover 8A/250V AC1
- Clamp terminals
- Mounted: DIN rail



SVR400-3

Code	Ref No.	Description	Dimensions (mm)		
			W	H	D
0433-2031	SVR400-3	400V 3 Phase	17.5	90	64

16A 7 Day / 24 Hour Time Switch



Features:

- Ideal for controlling heating, lighting and security applications
- 6 On / Off programmes per day
- Manual override
- Min. Switching time: 1 min
- Battery backup: 100 hrs
- Volt free contact
- Load rating: 16A [2A inductive]
- Mounted: DIN rail
- BS EN 60730-1



Code	Ref No.	No. of Channels
2292-7510	MCGT80C	1

1 Pole AC/DC Relay Interface Module (Flare Relay)



Features:

- 1 pole electromechanical relay
- 35mm DIN rail (EN 60715) mounting
- Screw terminal
- AgNi contact material
- Ideal interface for PLC and electronic systems
- Integral coil indication and protection circuit
- Instant ejection of relay using plastic retaining clip



3851-0012-0060

Code	Ref No.	Description	Dimensions (mm)		
			W	H	D
1 Pole					
0048-8419	3851-0012-0060	6A 1P 12V AC DC	6.2	87.9	75.6
0048-8422	3851-0024-0060	6A 1P 24V AC DC	6.2	87.9	75.6

1 Pole DC Relay Interface Module (Flare Relay)



Features:

- 1 pole electromechanical relay
- 35mm DIN rail (EN 60715) mounting
- Screw terminal
- AgNi contact material
- Ideal interface for PLC and electronic systems
- Integral coil indication and protection circuit
- Instant ejection of relay using plastic retaining clip



3851-7012-0050

Code	Ref No.	Description	Dimensions (mm)		
			W	H	D
1 Pole					
0048-8440	3851-7012-0050	6A 1P 12V	6.2	87.9	75.6
0048-8443	3851-7024-0050	6A 1P 24V DC	6.2	87.9	75.6

8A Multifunction Timer



Features:

- For the control of various electrical appliances
- Time setting via easily accessible switching on the front of the module
- 7 Output modes including: On-delay, off-delay, interval and single shot
- 7 Time ranges: 1 sec - 100 hrs
- Contact configuration: 1 CO
- Status indication: LED
- Mounted: DIN rail
- BS EN 61812-1



Code	Ref No.	Voltage Range
0968-4421	STM10	24 - 240V AC and 12 - 240V DC

TIMERS

10 Day Modular Multi-Voltage Timers

Features:

- For the control of various electrical appliances
- Time setting via easily accessible switching on the front of the module
- Contact configuration: 1 CO [SPDT]
- Mounted: DIN rail
- BS EN 61812-1



Code	Ref No.	Timer	Voltage
2215-9657	8011-0240	On-Delay	24 - 240V AC / DC
1853-1388	8101-230	Multifunction	12 - 230V AC / DC

7A 85 Series Miniature Changeover Plug-In Multifunction Timer

Features:

- 4 Pole plug-in timer
- Multifunction: On-delay, on pulse, fixed pulse and symmetrical recycling [on start]
- 7 Time ranges: 0.05 secs - 100 hrs
- Series 94 socket required for 35 mm DIN rail mounting – sold separately [0248-4838]
- BS EN 61000-4



Code	Ref No.	No. of Pins	Contact Configuration	Voltage
0141-7597	8504-0012	14	4 CO (4PDT)	12V AC / DC

PUSHBUTTON STATIONS

Empty Pushbutton Stations IP65

Features:

- Accepts 22.5 mm[Ø] pushbuttons, selector switches and key operated switches
- Not for use with illuminated pushbuttons
- Numerous cable entries
- Mounted: Surface
- IP65 [when assembled]
- BS EN 60947-5-1



Code	Ref No.	No. of Holes	Colour	Dimensions (mm)		
				W	H	D
Plastic						
1736-8843	PB050CBP	1	Grey	74	68	51
1736-8840	PB046CBP	1	Yellow	68	74	51
1736-8846	PB051CBP	2	Grey	68	104	51
1736-8849	PB052CBP	3	Grey	68	134	51
1736-8852	PB053CBP	4	Grey	68	164	51

Empty Pushbutton Stations IP65

Features:

- Numerous cable entries
- Accepts 22.5 mm pushbuttons and indicators
- Not suitable for illuminated pushbuttons
- Plus L = complete with labels
- Mounted: Surface
- IP65 [when assembled]
- BS EN 60947-5-1



Code	Ref No.	No. of Holes	Dimensions (mm)			
			Colour	W	H	D
Plastic						
0013-6951	PBS1	1	Grey	72	72	56
0108-0976	PBS1+L	1	Grey	68	74	51
0048-9184	PBS1/Y	1	Yellow	72	72	56
0013-6984	PBS2	2	Grey	72	117	56
0013-7005	PBS3	3	Grey	72	151	56
Die-Cast Aluminium						
0108-0988	PF1S+L	1	Grey	68	74	51
1424-6749	PF1S PS	1	Yellow	72	72	57
0108-0991	PF2S+L	2	Grey	68	104	51
1424-6752	PF2S PS	2	Yellow	72	112	57
0108-0994	PF3S+L	3	Grey	68	134	51
1424-6755	PF3S PS	3	Yellow	72	142	57

PUSHBUTTON STATIONS

Made Up Momentary Start Pushbutton Stations IP65



Features:

- Pre-assembled pushbutton stations complete with contact block
- 10A at 230V AC, 3A
- Mounted: Surface
- BS EN 60947-5-1



PBS1 S

Code	Ref No.	Contact Configuration	Operation	Colour	Dimensions (mm)		
					W	H	D
Plastic							
0013-6975	PBS1 S	1 NO	Momentary Start	Grey	68	68	51
Metal							
0013-6978	PBS1 S/M	1 NO	Momentary Start	Grey	68	74	51

1 Way Stop Push-button Station IP65



Features:

- Compact dimensions
- Numerous cable entries
- Surface mounting
- Pre-assembled complete with contact block



PBS1 STP

Code	Ref No.	Description	Dimensions (mm)		
			W	H	D
0013-6981	PBS1 STP	1 Way Plastic Red PB	68	68	51
0016-0687	PBS1 STP/M	1 Way Metal Red PB	68	74	51

KEY SWITCHES & PUSHBUTTON STATIONS

Made Up Key Pushbutton Stations IP65



Features:

- Pre-assembled pushbutton stations complete with contact block
- 10A at 230V AC, 3A
- Mounted: Surface
- BS EN 60947-5-1



PBS1 K

Code	Ref No.	Operation	Contact Configuration	Colour	Dimensions (mm)		
					W	H	D
Plastic							
0013-6969	PBS1 K	Key On/Off	1 NO	Grey	68	68	50
Die-Cast Aluminium							
0013-6972	PBS1 K/M	Key On/Off	1 NO	Grey	68	74	50

Made Up Momentary Up/Down Pushbutton Stations IP65



Features:

- Pre-assembled pushbutton stations complete with contact block
- 10A at 230V AC, 3A
- Mounted: Surface
- BS EN 60947-5-1



PBS2 UD

Code	Ref No.	Operation	Contact Configuration	Colour	Dimensions (mm)		
					W	H	D
Plastic							
0013-6999	PBS2 UD	Momentary Up/Down	2 NO	Grey	68	104	51
0013-7014	PBS3 USD	Momentary Up/Down	2 NO + 1 NC	Grey	68	134	51
2817-9382	PBS3 UED	Momentary Up/Estop /Down	Up 1NO+1NC, Estop 1NC, Down 1NO+1NC	Grey	68	134	51
Die-Cast Aluminium							
0013-7011	PBS3 FSR/M	Forward /Stop /Reverse	2 NO + 1 NC	Grey	68	134	51



KEY SWITCHES & PUSHBUTTON STATIONS

Made Up Lock-In Pushbutton Stations IP65



Features:

- Pre-assembled pushbutton stations complete with contact block
- 10A at 230V AC, 3A
- Mounted: Surface
- BS EN 60947-5-1



PBS1 ES

Code	Ref No.	Operation	Contact Configuration	Colour	Dimensions (mm)		
					W	H	D
Plastic							
0013-6966	PBS1 ESSR	Emergency Stop, Spring Return	1 NC	Yellow	68	68	51
0013-6954	PBS1 ES	Lock-In, Twist Release	1 NC	Yellow	68	68	51
Die-Cast Aluminium							
0013-6957	PBS1 ES/M		1 NC	Yellow	68	74	51

Made Up Emergency Stop Key Release Push-button Station IP65



Features:

- Pre-assembled pushbutton stations complete with contact block
- 10A at 230V AC, 3A
- Mounted: Surface
- BS EN 60947-5-1



PBS1 ESK

Includes

- 2 x Keys [key operated switches only]

Code	Ref No.	Operation	Contact Configuration	Colour	Dimensions (mm)		
					W	H	D
Plastic							
0013-6960	PBS1 ESK	Lock-In, Key Release	1 NC	Yellow	68	68	51
Die-Cast Aluminium							
0013-6957	PBS1 ESK/M	Lock-In, Key Release	1 NC	Yellow	68	74	51

10A Standard Pushbutton Switches IP40



Features:

- Suitable for panel door or enclosed control station mounting
- Switch operation: Momentary
- Complete with mounting coupler
- Green / Red switch does not include contact block [1424-6770]
- Cut out: 22.5 mm[Ø]
- BS EN 60947-5-1



Code	Ref No.	Colour	Dimensions (mm)		
			W	H	D
1424-6770	TWPB 11	Green / Red	30	43	-

Made Up Pushbutton Stations IP55



Features:

- Snap closing tinted door
- Blank sides
- Pre-assembled complete with contact block
- Mounted: Surface
- BS EN 60947-5-1



PBS1 ES/FLAP

Includes:

- 2 x Keys [0915-9673] only

Code	Ref No.	Contact Configuration	Operation	Dimensions (mm)		
				W	H	D
Plastic						
0915-9670	PBS1 ES/FLAP	1 NC	Lock-In, Twist Release	102	156	100
0915-9673	PBS1 ESK/FLAP	1 NC	Lock-In, Key Release	103	151	104

Made Up Momentary Start/Stop Pushbutton Stations IP65



Features:

- Pre-assembled pushbutton stations complete with contact block
- 10A at 230V AC, 3A
- Mounted: Surface
- BS EN 60947-5-1



PBS2 SS

Code	Ref No.	Operation	Contact Configuration	Colour	Dimensions (mm)		
					W	H	D
Plastic							
0013-6993	PBS2 SS	Momentary Start / Stop	1 NO + 1 NC	Grey	68	104	51
Die-Cast Aluminium							
0013-6996	PBS2 SS/M	Momentary Start / Stop	1 NO + 1 NC	Grey	68	104	51

Made Up Momentary Start/Stop Twist Release Pushbutton Stations IP65



Features:

- Pre-assembled pushbutton stations complete with contact block
- 10A at 230V AC, 3A
- Mounted: Surface
- BS EN 60947-5-1



PBS2 SES

Code	Ref No.	Operation	Contact Configuration	Colour	Dimensions (mm)		
					W	H	D
Plastic							
0013-6987	PBS2 SES	Start / Stop, Lock-In, Twist Release	1 NO + 1 NC	Grey	68	104	51
Die-Cast Aluminium							
0013-6990	PBS2 SES/M	Start / Stop, Lock-In, Twist Release	1 NO + 1 NC	Grey	68	104	51

PUSHBUTTON STATIONS

Insulated Plastic Foot Switch IP65



Features:

- Suitable for use with foot switch operated machines such as shearing machines, spinning machines, machine tools and wrapping machines
- Snap action contacts
- Manufactured using shock resistant ABS material
- Operation type: Free movement [convert to latching with 0013-5592 available online]
- Cable entry: Rear, PG16 cable gland
- Anti-slip floor pads
- BS EN 60947-5-1



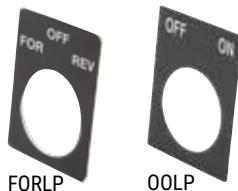
Code	Ref No.	Contact Configuration	Dimensions (mm)		
			W	H	L
0013-7185	PS3140	1 NO + 1 NC	140	138	280

Blank Legend Plate for Pushbuttons



Features:

- Suitable for use with 22.5 mm[Ø] pushbuttons, selector and key switches



Code	Ref No.	Description	Dimensions (mm)		
			W	H	D
0013-4770	BLLP	Blank Circular Plate	30	40	-
0013-5547	ESPLP	Stop Circular Plate	-	-	60
0013-5598	FORLP	Forward / Off / Reverse Plate	30	40	-
0013-5994	HOALP	Hands Off Auto Plate	30	40	-
0013-6912	OOLP	Off On Legend Plate	30	40	-
0013-7332	RSLP	Reset Legend Plate	30	40	-
0013-7746	SLP	Start Legend Plate	30	40	-
0013-8361	ULP	Up Legend Plate	30	40	-
0013-5289	DLP	Down Legend Plate	30	40	-



Emergency Stop Switches



Features:

- Surface mounted insulated emergency stop switch
- Mushroom head: 90 mm[Ø]
- Operating temperature: -25 to 70°C
- Mechanical durability: 300,000 Operations
- BS EN 60947-5-1



Code	Ref No.	Contact Configuration	Operation	Colour	Dimensions (mm)		
					W	H	D
IP65							
1442-5978	PALM01RPP	1 NC	Pull Release	Red/Yellow /Grey	94	101	94
1442-5993	PALM11RPP	1 NC + 1 NO	Pull Release	Red/Yellow /Grey	94	101	94
1442-5984	PALM02RPP	2 NC	Pull Release	Red/Yellow /Grey	94	101	94
IP66							
1400-5768	PALM11RS	1 NO + 1 NC	Spring Return	Red/Grey	85	102	85
2034-8389	PALM11GS	1 NO + 1 NC	Spring Return	Green/Grey	85	102	85

Momentary Mushroom Head Emergency Stop Switches IP65



Features:

- Surface mounted insulated emergency stop switch
- Mushroom head: 90 mm[Ø]
- Operating temperature: -25 to 70°C
- Mechanical durability: 300,000 Operations
- BS EN 60947-5-1



Code	Ref No.	Description	Dimensions (mm)		
			W	H	D
1442-5987	PALM10BW	Black 1NO	94	90	94
1442-5981	PALM01RW	Red 1NC	94	90	94
1442-5990	PALM11BW	Black 1NO+1NC	94	90	94
1442-5996	PALM11RW	Red 1NO+1NC	94	90	94

KEY SWITCHES & CONTACT BLOCKS

Fireman's Switch IP54



Features:

- Die-cast aluminium switch disconnector
- Operates with fireman's hook or axe
 - pull down to switch off
- Two-handed switch On
- 2 Pole 230V AC
- Cable entry: 2 x M25 Glands top and bottom
- IEC 60947-1 and 3
- Guarantee: 1 Year



Includes:

- PE Terminal and membrane gland [IP54]
- 'Fireman Switch' label
- 4 x M25 Sealing plugs

Code	Ref No.	Description	Dimensions (mm)		
			W	H	D
2 Pole					
2296-2532	FMS 25/2	25A 2P 230V	109	130	60

Base Mounting Contact Blocks



Features:

- Used in complete assemblies
- Suitable for use in dedicated pushbutton stations
- Mounts to the control station base enabling removal of front cover and pushbuttons without disconnecting wires
- Screw terminals
- BS EN 60947-5-1



Code	Ref No.	Contact Configuration	Current Rating
Base Mounting Contact Blocks for Plastic Control Stations Only			
0070-2508	BCB NC	1 NC	240V, 10A
0070-2511	BCB NO	1 NO	240V, 10A
Base Mounting Contact Blocks for Metal Control Stations Only			
2057-1520	BCB NO/M	1 NO	240V, 10A
2057-1523	BCB NC/M	1 NC	240V, 10A

Base Mounting Contact Blocks



Features:

- Suitable for use with panel mount pushbuttons and switches
- Screw terminals
- BS EN 60947-5-1
- Not suitable for pre-assembled push button stations

Code	Ref No.	Contact Configuration	Current Rating
0043-7317	CB NC	1 NC	240V, 10A
0043-7323	CB NO	1 NO	240V, 10A



Roller Shutter Door Key Switches IP54



Features:

- Tough aluminium enclosure
- 3 Position spring return to centre action
- Mounted: Surface



Includes:

- Contact blocks
- 3 x Keys

ROLLER32A

Code	Ref No.	Contact Configuration	Current Rating	Dimensions (mm)		
				W	H	D
1442-5999	ROLLER16A	2 NO	16A	73.5	73.5	45
1442-6005	ROLLER32A	2 NO	32A	75	75	66

Normally Open Contact Block IP20



Features:

- For use with 16A roller shutter door key switch [1442-5999] [1442-6005]
- Replacement normally open contact block



Code	Ref No.	Current Rating
1442-6002	ROLLER16ANO	16A

Enclosure to suit 16A & 32A Roller Shutter



Features:

- For use with 16A & 32A roller shutter door key switch [1442-5999] [1442-6005]
- Replacement normally open contact block



Code	Ref No.	Dimensions (mm)		
		W	H	D
1442-6011	ROLLERENC	95	115	90

CONTACT BLOCKS, KEY SWITCHES & SELECTOR SWITCHES

10A Contact Blocks

Features:

- Suitable for use with panel mount pushbuttons and switches
- Screw terminals
- BS EN 60947-5-1



Code	Ref No.	Contact Configuration
1736-8834	PB039CBP	1 NO
1736-8837	PB040CBP	1 NC

10A Emergency Stop Pushbuttons IP65

Features:

- Suitable for panel door and enclosed control station mounting
- Mushroom head
- Complete with mounting coupler and contact block
- Cut out: 22.5 mm[Ø]
- IP65 [when assembled]
- BS EN 60947-5-1



Code	Ref No.	Contact Configuration	Operation	Dimensions (mm)		
				W	H	D
0733-3258	ETR 10	1 NO	Twist Release	40	74	40
0043-7377	ETR 01	1 NC	Twist Release	40	74	40

Emergency Stop Pushbutton IP65

Features:

- Complete pushbutton assembly with mounting coupler and contact block
- Suitable for panel door and enclosed control station mounting
- IP65 [when assembled]
- BS EN 60947-5-1



Code	Ref No.	Contact Configuration	Operation	Dimensions (mm)		
				W	H	D
2217-6949	PB088CNCBP	1 NC	Twist Release	40	74	40

Pushbutton Heads Only IP65

Features:

- Replacement heads for 22.5 mm[Ø] standard pushbuttons
- Mounting coupler and contact blocks – sold separately [1738-8864], [1736-8834] and [1736-8837]
- IP65 [when assembled]
- BS EN 60947-5-1



Includes:

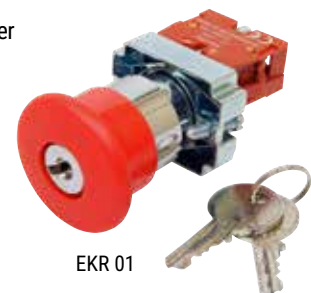
- 2 x Keys [2191-4164] only

Code	Ref No.	Colour	Operation	Dimensions (mm)		
				W	H	D
2191-4164	PB048CBP	Red	Key Release	40	-	45
1736-8819	PB020CBP	Red	Pull Release	40	-	45
1736-8816	PB019CBP	Red	Spring Return	40	-	45

10A Emergency Stop Pushbuttons IP65

Features:

- Suitable for panel door and enclosed control station mounting
- Mushroom head
- Complete with mounting coupler and contact block
- Cut out: 22.5 mm[Ø]
- IP65 [when assembled]
- BS EN 60947-5-1



Includes:

- 2 x Keys [0043-7353] only

Code	Ref No.	Contact Configuration	Operation	Dimensions (mm)		
				W	H	D
0043-7353	EKR 01	1 NC	Key Release	40	74	40
Spare Keys						
0055-7056	RB2-K455	-	2 Spare Keys	-	-	-



KEY SWITCHES & SELECTOR SWITCHES

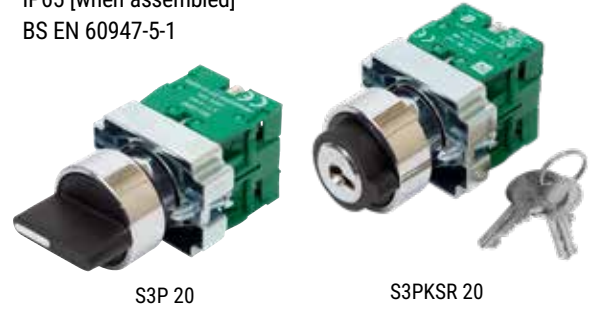
10A Key & Rotary Switches IP65



Code	Ref No.	No. of Positions	Contact Configuration	Operation	Dimensions (mm)		
					W	(Dia)	D
Key Operated Switches							
0043-7599	S2PK 10	2	1 NO	Stay Put	40	29	62
0043-7611	S3PK 20	3	2 NO	Stay Put	40	29	62
1424-6758	S2PKSR 10	2	1 NO	Spring Return	40	29	62
1424-6761	S3PKSR 20	3	2 NO	Spring Return	40	29	62
Rotary Selector Switches							
0043-7593	S2P 10	2	1 NO	Stay Put	40	29	62
0043-7605	S3P 20	3	2 NO	Stay Put	40	29	62
1747-3984	S3PSR 20	3	2 NO	Spring Return	40	29	62
Spare Keys							
0055-7056	RB2-K455	-	-	2 Spare Keys	-	-	-

Features:

- Suitable for panel door or enclosed control station mounting
- Complete with mounting coupler and contact block
- Cut out: 22.5 mm[Ø]
- IP65 [when assembled]
- BS EN 60947-5-1



S3P 20

S3PKSR 20

Mounting Coupler



Features:

- Suitable for 22.5 mm[Ø] pushbuttons, selector switches and key operated switches
- Compatible with front mounting contact blocks – sold separately



Code	Ref No.	Dimensions (mm)		
		W	H	D
0048-9487	RAS FB	40	29	11

Mounting Coupler



Features:

- Suitable for use with 22.5 mm[Ø] pushbuttons, selector switches and key operated switches
- Compatible contact blocks sold separately [1736-8834] and [1736-8837]



Code	Ref No.	Dimensions (mm)		
		W	H	D
1736-8864	PB093CBP	40	30	12

10A Key & Rotary Switches IP65



Features:

- Complete assemblies with mounting coupler and contact block
- Suitable for panel door and enclosed control station mounting
- Cut out: 22.5 mm[Ø]
- IP65 [when assembled]
- BS EN 60947-5-1



PB036CNOBP

PB031CNOBP

Includes:

- 2 x Keys [key operated switches only]

Code	Ref No.	No. of Positions	Contact Configuration	Operation	Dimensions (mm)		
					W	(Dia)	D
Key Operated Switches							
2217-6937	PB031CNOBP	2	1 NO	Latching	-	29	-
2217-6940	PB032C2NOBP	3	2 NO	Latching	-	29	-
Rotary Selector Switches							
2217-6946	PB036CNOBP	2	1 NO	Latching	-	29	-
2217-6943	PB035C2NOBP	3	2 NO	Latching	-	29	-
Spare Keys							
0055-7056	RB2-K455	-	-	2 Spare Keys	-	-	-

10A Key & Rotary Switches IP65 – Head Only



Features:

- Replacement heads for 22.5 mm[Ø] rotary selector switches
- Mounting coupler and contact blocks available – sold separately [1736-8864], [1736-8834] and [1736-8837]
- IP65 [when assembled]
- BS EN 60947-5-1



PB033CBP

Code	Ref No.	No. of Positions	Operation	Dimensions (mm)	
				(Dia)	D
1736-8822	PB033CBP	2	Non-Latching	29	42
1736-8825	PB034CBP	3	Non-Latching	29	42

PUSHBUTTON SWITCHES

10A Standard Pushbutton Switches IP65

Features:

- Suitable for panel door or enclosed control station mounting
- Switch operation: Momentary
- Complete with mounting coupler
- Green / Red switch does not include contact block [1424-6770]
- Cut out: 22.5 mm[Ø]
- BA9s Lamps sold separately - see page 21
- IP40 / 65 [when assembled]
- BS EN 60947-5-1



Code	Ref No.	Colour	Contact Configuration	Dimensions (mm)		
				W	(Dia)	D
0048-8542	APB 10	Amber	1 NO	40	29	54
0048-8593	BPB 10	Black	1 NO	40	29	54
0048-8572	BLPB 10	Blue	1 NO	40	29	54
0043-7395	GPB 10	Green	1 NO	40	29	54
0043-7587	RPB 01	Red	1 NC	40	29	54

Standard Pushbuttons IP65

Features:

- Complete pushbutton assemblies with mounting coupler and contact block
- Suitable for panel door and enclosed control station mounting
- Cut out: 22.5 mm[Ø]
- IP65 [when assembled]
- BS EN 60947-5-1



Code	Ref No.	Colour	Operation	Contact Configuration	Dimensions (mm)		
					W	(Dia)	D
2217-6931	PB013CNOBP	Green	Momentary	1 NO	-	29	-
2217-6934	PB017CNCBP	Red	Momentary	1 NC	-	29	-

Flush Momentary Pushbutton Head IP65

Features:

- IP65 chrome bezel
- Suitable for panel door and enclosed control station mounting
- Mounting coupler and contact blocks available (sold separately)



Code	Ref No.	Colour	Operation	Dimensions (mm)	
				(Dia)	D
0048-8545	APBHO	Amber	Momentary	29	27
0048-8596	BPBHO	Black	Momentary	29	27
0048-8575	BLPBHO	Blue	Momentary	29	27
0048-8944	GPBHO	Green	Momentary	29	27
0048-9505	RPBHO	Red	Momentary	29	27

Pushbutton Heads Only IP65

Features:

- Replacement heads for 22.5 mm[Ø] standard pushbuttons
- Mounting coupler and contact blocks – sold separately [1738-8864], [1736-8834] and [1736-8837]
- IP65 [when assembled]
- BS EN 60947-5-1



Code	Ref No.	Colour	Operation	Dimensions (mm)	
				(Dia)	D
1736-8855	PB054CBP	Black	Momentary	29	26
1736-8858	PB055CBP	Blue	Momentary	29	26
1736-8813	PB018CBP	Red	Momentary	29	26



PUSHBUTTON SWITCHES

Illuminated Pushbuttons IP65



Features:

- Suitable for panel door mounting
- Complete with lampholder, contact block and mounting coupler
- Can be illuminated permanently or momentarily depending on wiring
- Cut out: 22.5 mm[Ø]
- BA9s Lamps sold separately
- Not suitable for empty pushbutton stations
- IP65 [when assembled]
- BS EN 60947-5-1



AIP10 230



BLIP10 230

Code	Ref No.	Colour	Contact Configuration	Dimensions (mm)		
				W	(Dia)	D
Up to 230V Multi-Voltage Complete Assemblies [lamp not included]						
0048-8527	AIP10 230	Amber	1 NO	40	29	80
0048-8566	BLIP10 230	Blue	1 NO	40	29	80
0048-8614	CIP10 230	Clear	1 NO	40	29	80
0048-8938	GIP10 230	Green	1 NO	40	29	80
0048-9499	RIP01 230	Red	1 NC	40	29	80
230V - 110V Complete Assemblies [110V lamp included] - Diode fitted drops voltage to 110V						
0048-8530	AIP10 230/110	Amber	1 NO	40	29	80
0048-8569	BLIP10 230/110	Blue	1 NO	40	29	80
0048-8617	CIP10 230/110	Clear	1 NO	40	29	80
0048-8941	GIP10 230/110	Green	1 NO	40	29	80
0048-9502	RIP01 230/110	Red	1 NC	40	29	80



0.66W LED BA9s Lamps



Features:

- Multi-chip LED AC/DC
- Cap type: BA9s



Code	Ref No.	Colour	Voltage	Dia (mm)
1424-6674	BA9LED110W	-	110V	9
1424-6680	BA9LED24W	-	24V	9
1424-6677	BA9LED230W	-	230V	9

INDICATOR LAMPS

Panel Mount LED Indicators IP65



Features:

- High-visibility built-in LED indicator
- Flame retardant ABS
- Vibration resistant
- Ambient temperature: -5 to 40°C
- Lamp life: 30,000 hrs
- IP65 [when assembled]
- BS EN 60947



PL16-24G

PL22-24W

Code	Ref No.	Colour	Voltage Rating	Cut Out Ø (mm)	Dimensions (mm)	
					L	(Dia)
0577-6381	PL16-24Y	Yellow	24V AC / DC	16	55	19
0577-6372	PL16-24G	Green	24V AC / DC	16	55	19
0577-6375	PL16-24R	Red	24V AC / DC	16	55	19
0577-6378	PL16-24W	White	24V AC / DC	16	55	19
0577-6336	PL16-110Y	Yellow	110V AC	16	55	19
0577-6324	PL16-110B	Blue	110V AC	16	55	19
0577-6327	PL16-110G	Green	110V AC	16	55	19
0577-6354	PL16-240B	Blue	230V AC	16	55	19
0577-6357	PL16-240G	Green	230V AC	16	55	19
0577-6360	PL16-240R	Red	230V AC	16	55	19
0055-7011	PL22-24Y	Yellow	24V AC / DC	22.5	51	30
0055-6975	PL22-24B	Blue	24V AC / DC	22.5	51	30
0055-6984	PL22-24G	Green	24V AC / DC	22.5	51	30
0055-6993	PL22-24R	Red	24V AC / DC	22.5	51	30
0055-7002	PL22-24W	White	24V AC / DC	22.5	51	30
0055-7008	PL22-110Y	Yellow	110V AC	22.5	51	30
0055-6972	PL22-110B	Blue	110V AC	22.5	51	30
0055-6981	PL22-110G	Green	110V AC	22.5	51	30
0055-6990	PL22-110R	Red	110V AC	22.5	51	30
0055-6999	PL22-110W	White	110V AC	22.5	51	30
0055-7014	PL22-240Y	Yellow	230V AC	22.5	51	30
0055-6978	PL22-240B	Blue	230V AC	22.5	51	30
0055-6987	PL22-240G	Green	230V AC	22.5	51	30
0055-6996	PL22-240R	Red	230V AC	22.5	51	30
0055-7005	PL22-240W	White	230V AC	22.5	51	30

Indicator Light Assemblies LED IP65



Features:

- High-visibility with built-in multi-chip LED
- Low power consumption
- Cool running
- Vibration resistant
- Cut out: 22.5 mm[Ø]
- IP65 [when assembled]
- BS EN 60947-5-1



PB106CBP

PB109CBP

Code	Ref No.	Colour	Voltage Rating	Dimensions (mm)	
				L	(Dia)
2217-6964	PB110CBP	White	230V AC	51	30
2217-6961	PB109CBP	Blue	230V AC	51	30
2217-6952	PB106CBP	Green	230V AC	51	30
2217-6955	PB107CBP	Red	230V AC	51	30
2217-6958	PB108CBP	Amber	230V AC	51	30

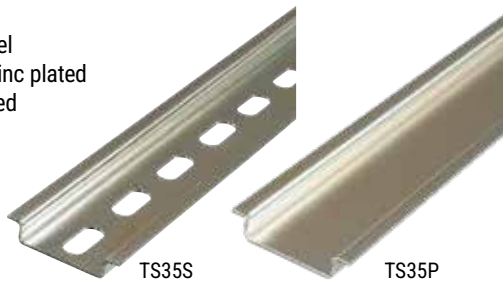
DIN RAIL & TERMINALS

DIN Rail / G-Type



Features:

- Galvanised steel construction, zinc plated and dichromated
- Length: 2 m
- BS EN 60715



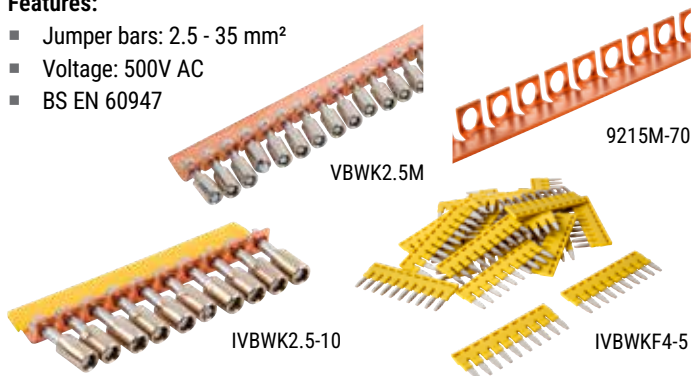
Code	Ref No.	Description	Type	Dimensions (mm)	
				W	D
Plain					
0013-8247	TS35P	Standard	DIN Rail	35	7.5
0013-8244	TS35HD	Heavy-Duty	DIN Rail	35	15
0013-8241	TS32G	Standard	G-Type	32	15
Slotted					
0013-8250	TS35S	Standard	DIN Rail	35	7.5
0013-8235	TS15P	For Miniature Terminals	DIN Rail	15	5.5

Jumper Bars



Features:

- Jumper bars: 2.5 - 35 mm²
- Voltage: 500V AC
- BS EN 60947



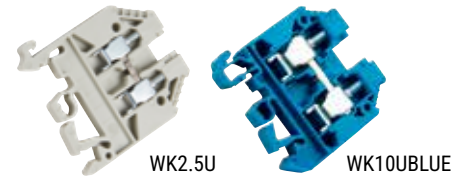
Code	Ref No.	Suitable For	No. of Ways
Uninsulated			
0016-0903	9215M-70	WKM4 / 15 Terminals	70
0013-8430	VBWK2.5M	WK2.5U Terminals	80
0013-8439	VBWK4M	WK4U Terminals	70
0013-8442	VBWK6M	WK6U Terminals	40
Insulated			
0013-6243	IVBWK2.5-10	WK2.5U Terminals	10
0013-6255	IVBWK4-2	WK4U Terminals	2
0013-6252	IVBWK4-10	WK4U Terminals	10
0189-5800	IVBWK4-5	WKF4 Terminals	5
0189-5794	IVBWK4-10	WKF4 Terminals	10
0013-6264	IVBWK10-10	WKN10U Terminals	10
0055-6966	IVBWK16-2	WKN16U Terminals	2
0055-6963	IVBWK16-10	WKN16U Terminals	10
0013-6267	IVBWK35-2	WKN35U Terminals	2
0717-8326	IVBWK35-12	WKN35U Terminals	12

DIN Rail Terminals



Features:

- Mounted: DIN rail and G-rail
- BS EN 60947



Code	Ref No.	Nominal Cross Section	Current Rating	Colour	Dimensions (mm)		
					W	H	L
Standard Feed-Through Terminals							
0013-8499	WK2.5U BLUE	2.5 mm ²	24A	Blue	5	48.5	44.5
1945-0654	WK2.5U BROWN	2.5 mm ²	24A	Brown	5	48.5	44.5
0013-8496	WK2.5U	2.5 mm ²	24A	Standard	5	48.5	44.5
0013-8502	WK2.5U WHITE	2.5 mm ²	24A	White	5	48.5	44.5
0013-8505	WK2.5U YELLOW	2.5 mm ²	24A	Yellow	5	48.5	44.5
0013-8550	WK4U BLACK	4 mm ²	32A	Black	6	48.5	44.5
0013-8553	WK4U BLUE	4 mm ²	32A	Blue	6	48.5	44.5
0013-8547	WK4U	4 mm ²	32A	Standard	6	48.5	44.5
0013-8559	WK4U RED	4 mm ²	32A	Red	6	48.5	44.5
0013-8562	WK4U WHITE	4 mm ²	32A	White	6	48.5	44.5
0013-8565	WK4U YELLOW	4 mm ²	32A	Yellow	6	48.5	44.5
0013-8571	WK6U BLUE	6 mm ²	41A	Blue	8	53.5	48
0013-8568	WK6U	6 mm ²	41A	Standard	8	53.5	48
0013-8592	WKN10U BLUE	10 mm ²	57A	Blue	10	55	53.8
0013-8589	WKN10U	10 mm ²	57A	Grey	10	55	53.8
0013-8601	WKN16U	16 mm ²	71A	Grey	12	57.5	59.3
2149-5349	WKN35U BLUE	35 mm ²	124A	Blue	16	67.6	70.6
0013-8610	WKN35U	35 mm ²	124A	Grey	16	67.6	70.6
0013-8619	WKN70U	70 mm ²	179A	Grey	24	81.2	76.8
0013-8595	WKN150U	150 mm ²	309A	Grey	28	98.6	96
Double-Deck Terminal							
0013-8604	WKN2.5E/U	2.5 mm ²	24A	Grey	5	63.9	65.8
Green / Yellow Earth DIN Rail Terminals							
0013-8613	WKN4SLU	4 mm ²	-	Green/Yellow	6	48.5	51
0013-8616	WKN6SLU	6 mm ²	-	Green/Yellow	8	53.5	54
0013-8586	WKN10SLU	10 mm ²	-	Green/Yellow	10	55	54
0013-8598	WKN16SLU	16 mm ²	-	Green/Yellow	12	57.5	57.5
0013-8607	WKN35SLU	35 mm ²	-	Green/Yellow	16	67.6	63
Green / Yellow Twin Earth Terminal							
0013-8520	WK4D2/2SLU	4 mm ²	-	Green/Yellow	6	48.5	52.3
Knife Disconnect Terminal							
0013-8544	WK4TKMU	4 mm ²	20A	Grey	6	49.5	48
Fuse Disconnect Terminals							
0013-8538	WK4THSI5U	4 mm ² G-Fuse 5x30 mm	6.3A	Grey	8	54.5	77.2
0013-8541	WK4THSI6.3U	4 mm ² G-Fuse 6.3x32 mm	10A	Grey	10	54.5	77.2
0013-8487	WK10SI5X20	10 mm ² G-Fuse 5x20 mm	10A	Grey	12	58.5	65
Fuse Double-Deck Terminals							
0013-8523	WK4D2/2U	4 mm ² [2into2]	30A	Grey	6	48.5	60
0013-8526	WK4DE/U	4 mm ² [2Thru]	22A	Grey	6	48.5	77
Spring Clamp Connection							
0189-5887	WKF4/35	4 mm ²	32A	Grey	6	42.3	57
Spring Clamp Earth Connection							
0180-3085	WKF4SL/35	4 mm ²	-	Green/Yellow	6	42.3	57

TERMINALS

Miniature Terminals



Features:

- Feed through terminal blocks
- Suitable for mounting on miniature 15 mm DIN rail
- Voltage: 500V AC
- BS EN 60947



WKM2.5/15

Code	Ref No.	Nominal Cross Section	Current Rating	Colour	Dimensions (mm)		
					W	H	L
0013-8580	WKM2.5/15	2.5 mm ²	25A	Blue	5	32	32
0035-2246	WKM2.5/15 BLUE	2.5 mm ²	25A	Grey	5	32	32
0013-8511	WKM4/15	4 mm ²	28A	Grey	6	32	32
0013-8583	WKM4SL/15	4 mm ²	-	Green/Yellow	6	32	31.6

Terminal Blocks



Features:

- For use with 35mm DIN Rail
- Nominal cross section: 95 mm²
- Voltage: 1,000V AC
- BS EN 60947



RFK1/95FMPA

Code	Ref No.	Mounted	Dimensions (mm)		
			W	H	L
0013-7305	RFK1/95FS35	DIN Rail	32	70.5	92
0013-7302	RFK1/95FMPA	DIN Rail	32	62.5	92

Universal End Stop



Features:

- Universal end clamp with U-foot
- Mounted: DIN rail and G-rail
- BS EN 60947



Code	Ref No.	Width
0013-8481	WE1/U	10 mm

Stop Ends



Features:

- Mounted: DIN rail
- BS EN 60947



2S35



9708/S35

Code	Ref No.	Width	Colour
0013-3225	2S35	8 mm	Grey
0013-4200	9708/S35	8 mm	White

End Plates & Partitions



Features:

- Protects against electric shock
- Pack of 10
- BS EN 60947



TW6



AP2.5/4

Code	Ref No.	Suitable For
End Plates		
0013-4518	APN2.5E	WKN2.5E/U Terminals
0013-4515	APN16	WKN16U Terminals
0013-4467	AP2.5/4	WK2.5/4U Terminals
0013-4506	AP6	WK6U Terminals
0013-4512	APN10	WKN10U Terminals
Partitions		
0013-8280	TW2.5/4	WK2.5/4U Terminals
0013-8289	TW6	WK6U Terminals
0013-8274	TW10	WKN10U Terminals
0013-8277	TW16	WKN16U Terminals



MULTIPOLE CONNECTORS & INSERTS

Multipole Connectors



Features:

- Plugs and sockets with rated impulse voltage: 6 kV
- Conductor size: 0.5 - 2.5 mm²
- Bases have single locking lever
- Operating temperature: -40 to 120°C
- BS EN 61984:2009 and BS EN 60664-1



Code	Ref No.	Size	No. of Poles	Dimensions (mm)		
				W	H	L
Plugs - 16A						
0013-4074	6PE16AMI	6	6P+E	34	32	50
0013-2745	10PE16AMI	10	10P+E	34	32	63
0013-2901	16PE16AMI	16	16P+E	34	32	83
0013-3120	24PE16AMI	24	24P+E	34	32	110
Sockets - 16A						
0013-4071	6PE16AFI	6	6P+E	34	32	50
0013-2742	10PE16AFI	10	10P+E	34	32	63
0013-2898	16PE16AFI	16	16P+E	34	32	83
0013-3117	24PE16AFI	24	24P+E	34	32	110
Hoods						
0013-4077	6PE16AP	6	-	43	47.5	73.6
0013-2748	10PE16AP	10	-	56	53	73
0013-2904	16PE16AP	16	-	56	60	93.5
0013-3123	24PE16AP	24	-	56.6	70	120
Multipole Connector Closed Bottom Bases						
0013-4083	6PE16ASS	6	-	52	54.5	84
0013-2754	10PE16ASS	10	-	52	54.5	94
0013-2910	16PE16ASS	16	-	57	51	117
0013-3129	24PE16ASS	24	-	57	56.5	144
Multipole Connector Open Bottom Bases						
0013-4080	6PE16APS	6	-	43.5	29	80
0013-2751	10PE16APS	10	-	57.2	27.9	93
0013-2907	16PE16APS	16	-	56.2	27.9	113
0013-3126	24PE16APS	24	-	56.2	27.9	140

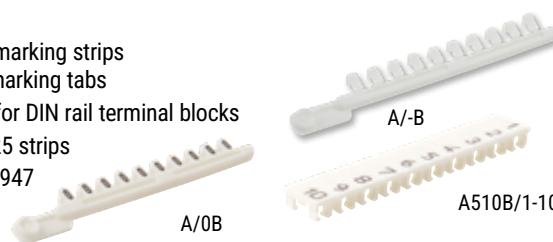
WIELAND MARKER TAGS



Marking Tags

Features:

- Tear-off marking strips with 10 marking tabs
- Suitable for DIN rail terminal blocks
- Pack of 25 strips
- BS EN 60947



Code	Ref No.	Marked
2.5 mm² Terminals		
0013-4203	A/-B	Blank
0013-4206	A/0B	0
0013-4209	A/1B	1
0013-4212	A/2B	2
0013-4215	A/3B	3
0013-4218	A/4B	4
0013-4221	A/5B	5
0013-4224	A/6B	6
0013-4227	A/7B	7
0013-4230	A/8B	8
0013-4233	A/9B	9
0013-4317	A510B/1-10	1-10
0013-4320	A510B/11-20	11-20
0013-4323	A510B/21-30	21-30
0013-4326	A510B/31-40	31-40
0013-4329	A510B/41-50	41-50
0013-4332	A510B/51-60	51-60
0013-4335	A510B/61-70	61-70
0013-4338	A510B/71-80	71-80
0013-4341	A510B/81-90	81-90
0013-4344	A510B/91-100	91-100
0013-4236	A/AG	A
0013-4239	A/BG	B
0013-4242	A/CG	C
0013-4245	A/DG	D
0013-4248	A/EG	E
0013-4251	A/FG	F
0013-4254	A/GG	G
0013-4268	A/HG	H
0013-4260	A/IG	I
0013-4268	A/JG	J
0013-4266	A/KG	K
0013-4269	A/LG	L
0013-4272	A/MG	M
0013-4275	A/NG	N
0013-4278	A/OG	O
0013-4281	A/PG	P
0013-4284	A/QG	Q
0013-4287	A/RG	R
0013-4290	A/SG	S
0013-4293	A/TG	T
0013-4296	A/UG	U
0013-4299	A/VG	V
0013-4302	A/WG	W
0013-4305	A/XG	X
0013-4308	A/YG	Y
0013-4311	A/ZG	Z

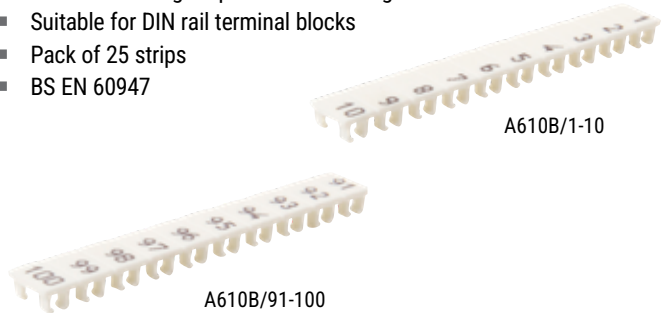
WIELAND MARKER TAGS

Marking Tags [continued]



Features:

- Tear-off marking strips with 10 marking tabs
- Suitable for DIN rail terminal blocks
- Pack of 25 strips
- BS EN 60947



Code	Ref No.	Marked
4 mm² Terminals		
0013-4347	A610B/1-10	1-10
0013-4320	A610B/11-20	11-20
0013-4353	A610B/21-30	21-30
0013-4356	A610B/31-40	31-40
0013-4329	A610B/41-50	41-50
0013-4362	A610B/51-60	51-60
0013-4335	A610B/61-70	61-70
0013-4338	A610B/71-80	71-80
0013-4371	A610B/81-90	81-90
0013-4344	A610B/91-100	91-100

Marking Tags – Unmarked



Features:

- Single marking tags
- Suitable for all block widths
- Pack of 100
- BS EN 60947



Code	Ref No.	Dimensions (mm)	
		W	L
0013-4185	9705A	5	8.3

Marking Tags – Numbered



Features:

- Tear-off marking strips with 10 marking tags
- Marked with consecutive numbers
- For use with DIN rail terminal blocks
- Pack of 25 strips
- BS EN 60947



Code	Ref No.	Marked
0038-5621	A/1-0B	0-9

PANEL TRANSFORMERS

230 / 400V Multiple Output Transformers



Features:

- Reliable operation, compact design and safe wiring for a wide range of applications
- Voltage output: 12, 24, 48, 110 and 240V
- Suitable for panel mounting only
- BS EN 61558 and Q/ZT258



Code	Ref No.	VA Rating	Dimensions (mm)		
			W	H	D
1412-8561	CCT/50	50 VA	85	84	83
1412-8543	CCT/100	100 VA	103	99	87
1412-8549	CCT/150	150 VA	103	99	93
1412-8552	CCT/200	200 VA	103	99	105
1412-8555	CCT/300	300 VA	130	150	125
1412-8558	CCT/400	400 VA	148	153	155
1412-8564	CCT/500	500 VA	148	153	155
1412-8546	CCT/1000	1000 VA	173	174	186

CONTACTORS & ACCESSORIES

Enclosed Contactors



Features:

- Ideal for heating and lighting applications
- Pressed steel enclosure: RAL7035
- Top and bottom cable gland knockouts
- IP55
- BS EN 60947



Code	Ref No.	Current Rating AC1	Contact Configuration	Dimensions (mm)		
				W	H	D
Single Pole + N with Fuse Protection						
0013-4623	BCGHS1S	60A	3 NO	184	184	149
0013-4626	BCGHS3S	100A	3 NO	285	305	159
3 Pole + N with Fuse Protection						
0013-4635	BCGHT1S	25A	3 NO	184	184	149
0013-4638	BCGHT3S	40A	3 NO	184	184	149
0013-4641	BCGHT5S	72A	3 NO	285	305	159
0013-4644	BCGHT6S	110A	3 NO	285	305	159
4 Pole with Neutral Block						
2077-3264	3ENC4/25N	25A	4 NO	184	184	149
2077-3267	3ENC4/40N	40A	3 NO	184	184	149

MODULAR CONTACTORS

Modular Contactors

Features:

- Ideal for switching heating and lighting applications
- Coil voltage: 230V AC
- Mounted: DIN rail
- BS EN 61095



MC120



MC2252NO2NC



MC3634NC



Code	Ref No.	Current Rating	No. of Modules	Contact Configuration	Dimensions (mm)		
					W	H	D
2 Pole							
1469-6029	MC120	20A	1	2 NO	18	83	66
2029-0501	MC1202NC	20A	1	2 NC	18	83	66
4 Pole							
2029-0504	MC2252NO2NC	25A	2	2 NO + 2 NC	18	83	66
1469-4562	MC225	25A	2	4 NO	36	83	66
2029-0507	MC2254NC	25A	2	4 NC	35	88	66
2029-0510	MC3402NO2NC	40A	3	2 NO + 2 NC	54	88	66
1462-6381	MC340	40A	3	4 NO	54	88	66
2029-0513	MC3404NC	40A	3	4 NC	54	88	66
2029-0516	MC3632NO2NC	63A	3	2 NO + 2 NC	54	88	66
1462-6384	MC363	63A	3	4 NO	54	88	66
2029-0519	MC3634NC	63A	3	4 NC	54	88	66



Modular Contactors

Features:

- For controlling remote switching and protecting electrical installations
- Ideally suited to connecting and breaking non-inductive or low inductive loads, resistance heaters, household appliances or similar
- Suitable for use with DIN rail mounting enclosures (sold separately)
- Note: Not suitable for lighting applications

Code	Ref No.	Current Rating	No. of Modules	Contact Configuration	Dimensions (mm)		
					W	H	D
2 Pole							
2296-3879	CC20A1MC2NC	20A	1	2NC	18	81	68
2296-3882	CC20A1MC2NOBP	20A	1	2 NO	18	81	68
2296-3885	CC25A1MC2NC	25A	1	2 NC	18	81	68
2296-3888	CC25A1MC2NOBP	25A	1	2 NO	18	81	68
4 Pole							
2296-3891	CC25A2MC2NO2NC	25A	2	2 NO 2NC	36	81	68
2296-3894	CC25A2MC4NC	25A	2	4 NC	36	81	68
2296-3897	CC25A2MC4NOBP	25A	2	4 NO	36	81	68
2296-3915	CC63A3MC2NO2NC	63A	3	2 NO 2 NC	54	85	68
2296-3918	CC63A3MC4NC	63A	3	4 NC	54	85	68
2296-3921	CC63A3MC4NOBP	63A	3	4 NO	54	85	68



CC20A1MC2NC



CC25A2MC2NO2NC



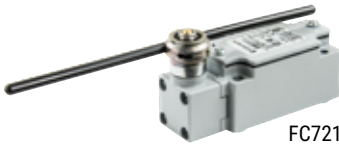
LIMIT SWITCHES

Metal Limit Switches IP66



Features:

- Range: FC
- Snap action contacts
- Cable entry: M20 1.5 Cable gland
- BS EN 60947-5-1



Code	Ref No.	Head Type	Contact Configuration	Dimensions (mm)		
				W	H	D
0013-5550	FC121	Standard Plunger	1 NO + 1 NC	40	108.5	43
0013-5553	FC131	Roller Plunger	1 NO + 1 NC	40	120	43
0013-5556	FC221	Side Projecting	1 NO + 1 NC	40	100.5	43
0013-5559	FC311	Angled Roller	1 NO + 1 NC	40	134	43
0013-5562	FC411	Standard Roller	1 NO + 1 NC	40	133	43
0013-5568	FC511	Adjustable Roller	1 NO + 1 NC	40	138	43
0013-5571	FC721	Adjustable Actuator Rod	1 NO + 1 NC	40	277	43
0013-5574	FC911	Spring Rod	1 NO + 1 NC	40	200	43

Plastic Limit Switches IP65



Features:

- Range: FCP
- Snap action contacts
- Cable entry: M20 1.5 Cable gland
- BS EN 60947-5-1



Code	Ref No.	Head Type	Contact Configuration	Dimensions (mm)		
				W	H	D
1453-4938	FC111P	Plain Plunger	1 NO + 1 NC	30.3	73	30
1453-4941	FC131P	Roller Plunger	1 NO + 1 NC	30.3	84	30
1453-4944	FC411P	Standard Roller	1 NO + 1 NC	30.3	106	30
1453-4947	FC511P	Adjustable Roller	1 NO + 1 NC	30.3	98.5	30
1453-4950	FC551P	Adjustable Roller 50mm Head	1 NO + 1 NC	30.3	114.5	30

SAFETY LOCKOUT


Did you know?...

MCG Offer a wide range of Safety Lockout products

Scan the QR code to access the latest Digital Brochure






Unit 1, Railway Court, Ten Pound Walk, Doncaster, South Yorkshire, DN4 5FB
Tel: +44 [0]1302 342 642
mcg.co.uk |  mcg_industrial

MCGCAT09



© MCG 2026 - E&OE Errors and Omissions excepted