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Direct-on-Line Starters

IP66 Plastic Enclosure

4



34 EXE0-D



34 EXE0-D



T25DU



Three Phase 400v up to 7.5kW - 400 or 230v coil

- Smoothly styled modern IP66 enclosed DOL starter IEC947-4-1
- Generous cabling space for easy installation
- Combined contactor/overload assembly can be unclipped from DIN rail to ease installation
- Support for 400v 3ph or 230v single phase

IP66 Plastic Enclosure + Contactor 400v coil - Select overload from below

Three Phase 400V [AC3]		Order Code
KW	hp	
5.5	7.5	124EXE0D-OL
7.5	10.0	184EXE0D-OL

IP66 Plastic Enclosure + Contactor 230v coil - Select overload from below

Three Phase 400V [AC3]		Single Phase 230V [AC3]		Order Code
KW	hp	KW	hp	
5.5	7.5	1.5	2.0	122EXE0D-OL
7.5	10.0	2.2	3.0	182EXE0D-OL

Note: 230v Single Phase requires a simple wiring modification, details on installation sheet

Overload Selection

Three Phase 400V [AC3]		Single Phase 230V [AC3]		Rating Amps		Order Code
KW	hp	KW	hp	From	To	
0.37	0.55	0.07	0.09	1.0	1.4	TA25DU1.4
0.55	0.75	0.1	0.125	1.3	1.8	TA25DU1.8
0.75	1.0	0.18	0.25	1.7	2.4	TA25DU2.4
1.1	1.5	0.25	0.33	2.2	3.1	TA25DU3.1
1.5	2.0	0.37	0.50	2.8	4.0	TA25DU4.0
2.2	3.0	0.55	0.75	4.5	6.5	TA25DU6.5
4.0	5.5	1.1	1.5	7.5	11.0	TA25DU11
5.5	7.5	1.5	2.0	10.0	14.0	TA25DU14
7.5	10.0	2.2	3.0	13.0	19.0	TA25DU19

Accessories	Order Code
Emergency Stop Button	MPMT3-10R
Contact block holder	MCBH-00
Rubber washer	KAI-8045
Contact block NC	MCB-01
Pilot Light 230v	CL-523G
2 Position Switch	C2SS1-10B-11

Above to be used when you remove the knockout on the front of the unit



Direct-on-Line Starters

IP65 Metal Enclosure



84 EXE1-D

84 EXE1-D

T25DU

Three Phase 400v up to 7.5kW - 400 or 230v coil

- Smoothly styled modern IP66 enclosed DOL starter IEC947-4-1
- Generous cabling space for easy installation
- Combined contactor/overload assembly can be unclipped from DIN rail to ease installation
- Support for 400v 3ph or 230v single phase

IP65 Metal Enclosure + Contactor 400v coil - Select overload from below

Three Phase 400V [AC3]		Order Code
KW	hp	
5.5	7.5	124EXE1D-OL
7.5	10.0	184EXE1D-OL
15.0	20.0	314EXE1D-OL

IP65 Metal Enclosure + Contactor 230v coil - Select overload from below

Three Phase 400V [AC3]		Single Phase 230V [AC3]		Order Code
KW	hp	KW	hp	
5.5	7.5	1.5	2.0	122EXE1D-OL
7.5	10.0	2.2	3.0	182EXE1D-OL
15.0	20.0	4.0	5.5	312EXE1D-OL

Note: 230v Single Phase requires a simple wiring modification, details on installation sheet

Overload Selection

Three Phase 400V [AC3]		Single Phase 230V [AC3]		Overload Rating Amps		Order Code
KW	hp	KW	hp	From	To	
0.37	0.55	0.07	0.09	1.0	1.4	TA25DU1.4
0.55	0.75	0.1	0.125	1.3	1.8	TA25DU1.8
0.75	1.0	0.18	0.25	1.7	2.4	TA25DU2.4
1.1	1.5	0.25	0.33	2.2	3.1	TA25DU3.1
1.5	2.0	0.37	0.50	2.8	4.0	TA25DU4.0
2.2	3.0	0.55	0.75	4.5	6.5	TA25DU6.5
4.0	5.5	1.1	1.5	7.5	11.0	TA25DU11
5.5	7.5	1.5	2.0	10.0	14.0	TA25DU14
7.5	10.0	2.2	3.0	13.0	19.0	TA25DU19
11	15.0	3.0	4.0	18.0	25.0	TA25DU25
15	20.0	4.0	5.5	24.0	32.0	TA25DU32



Direct-on-Line Starters + Isolator

IP65 Metal Enclosure



Three Phase 400v up to 15kW with Isolator - 400 or 230v coil

- Direct-On-Line Starter with isolator in metal enclosure IP65. IEC 947-4-1
- Support for 400v 3ph or 230v single phase

IP65 Metal Enclosure + Contactor with Isolator 400v coil

Select overload from below

Three Phase 400V [AC3]		Order Code
KW	hp	
5.5	7.5	124EXE2DI-OL
7.5	10.0	184EXE2DI-OL
15.0	20.0	314EXE2DI-OL



84EXE2-DI

IP65 Metal Enclosure + Contactor with Isolator 230v coil

Select overload from below

Three Phase 400V [AC3]		Single Phase 230V [AC3]		Order Code
KW	hp	KW	hp	
5.5	7.5	1.5	2.0	122EXE2DI-OL
7.5	10.0	2.2	3.0	182EXE2DI-OL
15.0	20.0	4.0	5.5	312EXE2DI-OL

Note: 230v Single Phase requires a simple wiring modification, details on installation sheet

Overload Selection

Three Phase 400V [AC3]		Single Phase 230V [AC3]		Overload Rating Amps		Order Code
KW	hp	KW	hp	From	To	
0.37	0.55	0.07	0.09	1.0	1.4	TA25DU1.4
0.55	0.75	0.1	0.125	1.3	1.8	TA25DU1.8
0.75	1.0	0.18	0.25	1.7	2.4	TA25DU2.4
1.1	1.5	0.25	0.33	2.2	3.1	TA25DU3.1
1.5	2.0	0.37	0.50	2.8	4.0	TA25DU4.0
2.2	3.0	0.55	0.75	4.5	6.5	TA25DU6.5
4.0	5.5	1.1	1.5	7.5	11.0	TA25DU11
5.5	7.5	1.5	2.0	10.0	14.0	TA25DU14
7.5	10.0	2.2	3.0	13.0	19.0	TA25DU19
11	15.0	3.0	4.0	18.0	25.0	TA25DU25
15	20.0	4.0	5.5	24.0	32.0	TA25DU32



T25DU



Direct-on-Line Reversing Starters

IP65 Metal Enclosure



32EXE2-DR

T25DU

Three Phase 400v up to 7.5kW Reversing - 400 or 230v coil

- Direct-On-Line Starter with isolator in metal enclosure IP65. IEC 947-4-1.
- Mechanically and electrically interlocked contactors.

IP65 Metal Enclosure + Reversing Contactors 400v coil

Select overload from below

Three Phase 400V [AC3]		Order Code
kW	hp	
7.5	10.0	184EXE2DR-OL

IP65 Metal Enclosure + Reversing Contactors 230v coil

Select overload from below

Three Phase 400V [AC3]		Order Code
kW	hp	
7.5	10.0	182EXE2DR-OL

4

Overload Selection

Three Phase 400V [AC3]		Overload Rating Amps		Order Code
KW	hp	From	To	
0.37	0.55	1.0	1.4	TA25DU1.4
0.55	0.75	1.3	1.8	TA25DU1.8
0.75	1.0	1.7	2.4	TA25DU2.4
1.1	1.5	2.2	3.1	TA25DU3.1
1.5	2.0	2.8	4.0	TA25DU4.0
2.2	3.0	4.5	6.5	TA25DU6.5
4.0	5.5	7.5	11.0	TA25DU11
5.5	7.5	10.0	14.0	TA25DU14
7.5	10.0	13.0	19.0	TA25DU19



Star Delta Starter

IP65 Metal Enclosure or DIN Rail Mounted

4



214 EXE2-S



Enclosed Star-Delta up to 22kW 400V - 400 or 230v coil

- Star-Delta Starters with isolator in metal enclosure IEC 947-4-1.
- All three phase star delta starters, are complete with pushbuttons, and 415v or 230v coils.
- Resetting of overload via stop button.
- Overload for standard motor duty is supplied separately.

Note: The overload is fitted in the Delta loop, therefore overload rating equal to FLC multiplied by 0.58*

IP65 Metal Enclosure + Star Delta 400v coil Select overload from below

Three Phase

400V [AC3]

kW	hp	Order Code
15.0	20.0	314EXE2S-OL
22.0	30.0	454EXE2S-OL

230v coil Select overload from below

15.0	20.0	312EXE2S-OL
22.0	30.0	452EXE2S-OL

DIN Rail Mounted Star-Delta up to 22kW 400V

- A range of Star-Delta Starters mounted on PR30 rail.
- Terminals to enable remote start and stop.
- 230 or 400v control circuit.
- Compact design with electrical and mechanical interlock.

Note: The overload is fitted in the Delta loop, therefore overload rating equal to FLC multiplied by 0.58*

DIN Rail Mounted Star Delta

400v coil Select overload from below

Three Phase

400V [AC3]

kW	hp	Order Code
15.0	20.0	314EXE4S-OL
22.0	30.0	454EXE4S-OL

230v coil Select overload from below

15.0	20.0	312EXE4S-OL
22.0	30.0	452EXE4S-OL



T25DU



T25DU

Overload Selection

Three Phase 400VV [AC3]		Overload Rating Amps*		Order Code
KW	hp	From	To	
5.5	7.5	6.0	8.5	TA25DU8.5
11	15	10.0	14.0	TA25DU14
15	20	13.0	19.0	TA25DU19
22	30	24.0	32.0	TA25DU32

*Overload Calculation

Motor FLC	Delta Loop Setting	Motor FLC	Delta Loop Setting
5	2.9	18	10.4
6	3.5	20	11.6
7	4.0	25	14.5
8	4.6	30	17.4
9	5.2	35	20.3
10	5.8	40	23.2
12	7.0	45	26.1
14	8.1	50	29.0
16	9.3	55	32.0



Star Delta Starter+Isolator

IP65 Metal Enclosure



214 EXE2-SI

T25DU

Enclosed Star-Delta + Isolator up to 22kW 400V - 400 or 230v coil

- Star-Delta Starters with isolator in metal enclosure IEC 947-4-1.
- All three phase star delta starters, are complete with pushbuttons, overload and 415v or 230v coils.
- Resetting of overload via stop button.
- Overload for standard motor duty is supplied separately.

Note: The overload is fitted in the Delta loop, therefore overload rating equal to FLC multiplied by 0.58*

IP65 Metal Enclosure + Star Delta + Isolator 400v coil

Three Phase
400V [AC3]

kW	hp	Order Code
15.0	20.0	314EXE2SI-OL
22.0	30.0	454EXE2SI-OL

230v coil

15.0	20.0	312EXE2SI-OL
22.0	30.0	452EXE2SI-OL

Select overload from below

Overload Selection

Three Phase 400V [AC3]		Overload Rating Amps*		Order Code
KW	hp	From	To	
5.5	7.5	6.0	8.5	TA25DU8.5
11	15	10.0	14.0	TA25DU14
15	20	13.0	19.0	TA25DU19
22	30	24.0	32.0	TA25DU32

*Overload Calculation

Motor FLC	Delta Loop Setting	Motor FLC	Delta Loop Setting
5	2.9	18	10.4
6	3.5	20	11.6
7	4.0	25	14.5
8	4.6	30	17.4
9	5.2	35	20.3
10	5.8	40	23.2
12	7.0	45	26.1
14	8.1	50	29.0
16	9.3	55	32.0



HL 25P-230



HL 25-230



HL 63-230

Plastic Enclosure IP66 Four Pole Contactor - 230v coil

(Including neutral terminal strip)

Heating AC1	Amps Per Pole		Optional Aux Contacts	Main Poles	Order Code
	Fluorescent and Mercury Vapour	Tungsten			
25A	16A	16A	A	4	HL25P-230-4
45A	30A	32A	A	4	HL45P-230-4

Four Pole Contactor - 400v coil

(Including neutral terminal strip)

25A	16A	16A	A	4	HL25P-400-4
45A	30A	32A	A	4	HL45P-400-4

Metal Enclosure IP65 Four Pole Contactor - 230v coil

(Including neutral terminal strip)

Heating AC1	Amps Per Pole		Optional Aux Contacts	Main Poles	Order Code
	Fluorescent and Mercury Vapour	Tungsten			
25A	16A	16A	A	4	HL25-230-4
45A	30A	32A	A	4	HL45-230-4
70A	40A	42A	A	4	HL63-230-4
100A	70A	70A	A	4	HL100-230-4
200A	130A	130A		4	HL200-230-4

Four Pole Contactor - 400v coil

(Including neutral terminal strip)

25A	16A	16A	A	4	HL25-400-4
45A	30A	32A	A	4	HL45-400-4
70A	40A	42A	A	4	HL63-400-4
100A	70A	70A	A	4	HL100-400-4
200A	130A	130A		4	HL200-400-4

Auxiliary Contacts

Description	N/O	N/C	Order Code
Auxiliary Contact	1	x	CA5-10
Auxiliary Contact	x	1	CA5-01



A9.30.10



ZA16



TA25.....

A Series Contactors - AC operational 3 pole

Amps [AC1]	Three Phase 415V [AC3]		Order Code
	kW	hp	
25A	4.0	5.5	A9.30.10*
25A	5.5	7.5	A12.30.10*
25A	7.5	10.0	A16.30.10*
32A	11.0	15.0	A26.30.10*
45A	15.0	20.0	A30.30.10*

* Please state coil voltage when ordering 230V / 400V

Spare Coils

Coil Voltages	Order Code
A9 - A16	ZA16*
A26 - A30	ZA40*

* Please state coil voltage when ordering 230V / 400V

T Series - Overloads

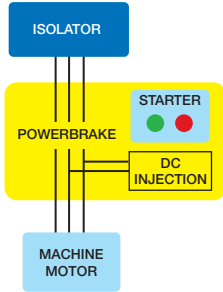
Full Load Current			Order Code
Min	Max.		
0.1	...	0.16	TA25DU0.16
0.16	...	0.25	TA25DU0.25
0.25	...	0.4	TA25DU0.4
0.4	...	0.63	TA25DU0.63
0.63	...	1.0	TA25DU1.0
1.0	...	1.4	TA25DU1.4
1.3	...	1.8	TA25DU1.8
1.7	...	2.4	TA25DU2.4
2.2	...	3.1	TA25DU3.1
2.8	...	4.0	TA25DU4.0
3.5	...	5.0	TA25DU5.0
4.5	...	6.5	TA25DU6.5
6.0	...	8.5	TA25DU8.5
7.5	...	11	TA25DU11
10	...	14	TA25DU14
13	...	19	TA25DU19
18	...	25	TA25DU25
24	...	32 (star delta only)	TA25DU32
22	...	32	TA42DU32



DC Injection Brakes

Powerbrake

4



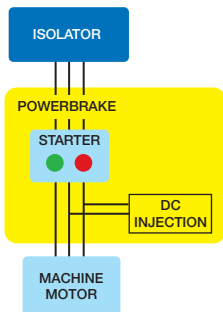
PBP



PBPS...E



PBC5-400



Production - DOL

Used to increase the production output on machines which would normally take a long period of time to come to rest after the stop button has been pressed.

Available in two formats with DOL starter and without starter (for use with existing DOL or Star Delta starter.)

Production brakes offer compliance with the **POWER 98** regulations, relating to the stopping time of motors within the woodworking industry.

- Reduced stopping time
- Increase production cycle
- Smooth controlled stopping
- Adjustable braking torque and stop time
- Easy installation
- Maintenance free

Three Phase Basic Brake

kW	A	HP	Voltage	Order Code
3	6.6	4	380-415	PBP3-400
5.5	11.5	7.5	380-415	PBP5-400

Three Phase Production Brake

kW	A	HP	Voltage	Order Code
3	6.6	4	380-415	PBPS3-400E
5.5	11.5	7.5	380-415	PBPS5-400E

Emergency

In the case of an emergency, Powerbrake can be initialised by a safety device which when activated causes the Powerbrake to disengage the AC supply to the motor and inject a controlled DC current into the motor windings bringing the motor to a rapid rest safely.

Injection braking cannot operate in the event of supply failure

- Increased safety in hazardous machines
- Adjustable braking torque and stop time
- Smooth stopping
- Fault/Trip indication
- Easy installation
- Maintenance free

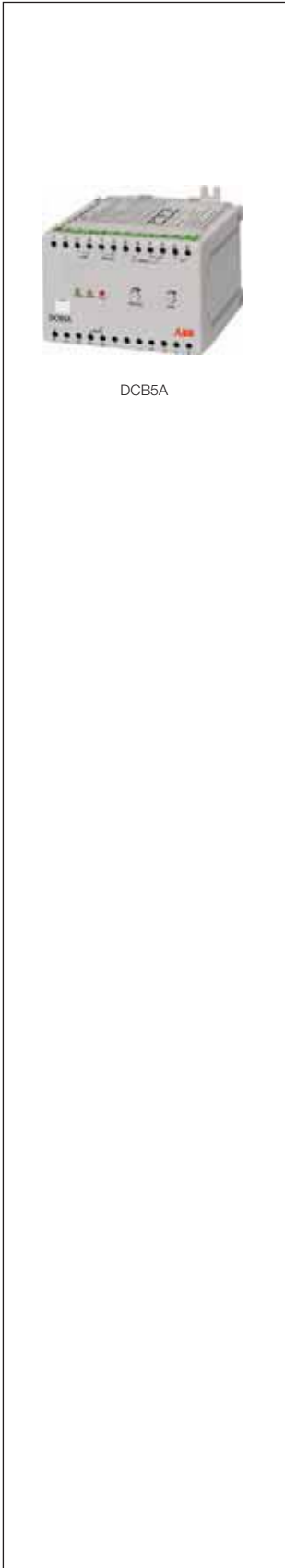
Three Phase Critical Brake

kW	A	HP	Voltage	Order Code
3	6.6	4	380-415	PBC3-400
5.5	11.5	7.5	380-415	PBC5-400



DC Injection Brakes

Powerbrake



DCB5A

Modules

Solid state injection brakes provide frictionless fast, smooth braking of single and three phase AC induction motors by injecting a controlled DC current into the motor windings: this introduces a stationary magnetic field which exerts a braking torque on the rotor.

- Reduced stopping time
- Increased production
- Increased safety in hazardous machines
- Smooth controlled stopping
- No wear on moving mechanical parts
- Adjustable braking torque and stop time
- Easy installation
- Maintenance free

kW	Motor HP	Voltage	Max. Brake Current (A) 10s Operation	Module Supply Voltage	Order Code
4	5.5	380/415	20	380/415	DCB4
				110/120	DCB5A115
5.5	7.5	380-415	30	220/240	DCB5A230
				380/415	DCB5A400



What is an ABB ACS drive?

The ABB component drives meet the requirements of OEMs, installation companies and panel builders. It is a component that is bought, together with other components from a logistical distributor. The drive is stocked, and the number of options and variants is optimized for logistical distribution.

Can be used for:

- Fans
- Pumps
- Gate Control
- Material Handling
- Conveyors

Description:

- Power range 0.18kW to 2.2kW (100-240v)
- IP20
- Integral EMC Filter for 1st environment EN61800-3
- Optimised switching frequency for low noise (up to 16kHz)
- NonEMC option available. Not suitable for domestic networks

Built-in EMC filter, 1-phase supply voltage 200/240 V, +10/-15%, 3-phase output 200/240 V

P _N kW	P _N hp	Nominal current	Output Max current	Input current A	Frame size	H1 mm	H2 mm	W mm	D mm	Weight kg	Order Code
0.18	0.25	1.4	2.1	4.4	A	170	146.5	45	128	0.65	ACS55-01E-01A4-2
0.37	0.5	2.2	3.3	6.9	A	170	146.5	45	128	0.7	ACS55-01E-02A2-2
0.75	1.0	4.3	6.5	10.8	B	170	146.5	67.5	128	0.9	ACS55-01E-04A3-2
1.5		7.6	11.4	18.2	D	226	203	70	159	1.1	ACS55-01E-07A6-2
2.2		9.8	14.7	22	D	226	203	70	159	1.1	ACS55-01E-09B8-2

No EMC filter, 1-phase supply voltage 200/240 V, +10/-15%, 3-phase output 200/240 V

P _N kW	P _N hp	Nominal current	Output Max current	Input current A	Frame size	H1 mm	H2 mm	W mm	D mm	Weight kg	Order Code
0.18	0.25	1.4	2.1	4.4	A	170	146.5	45	128	0.55	ACS55-01N-01A4-2
0.37	0.5	2.2	3.3	6.9	A	170	146.5	45	128	0.6	ACS55-01N-02A2-2
0.75	1.0	4.3	6.5	10.8	B	170	146.5	67.5	128	0.8	ACS55-01N-04A3-2
1.5		7.6	11.4	18.2	C	194	171	90	159	1.1	ACS55-01N-07A6-2
2.2		9.8	14.7	22	C	194	171	70	159	1.1	ACS55-01N-09A8-2

Built-in EMC filter, 1-phase supply voltage 100/120 V, +10/-15%, 3-phase output 200/240 V

P _N kW	P _N hp	Nominal current	Output Max current	Input current A	Frame size	H1 mm	H2 mm	W mm	D mm	Weight kg	Order Code
0.18	0.25	1.4	2.1	6.4	A	170	146.5	45	128	0.65	ACS55-01E-01A4-1
0.37	0.5	2.2	3.3	9.5	A	170	146.5	45	128	0.7	ACS55-01E-02A2-1

No EMC filter, 1-phase supply voltage 100/120 V, +10/-15%, 3-phase output 200/240 V

P _N kW	P _N hp	Nominal current	Output Max current	Input current A	Frame size	H1 mm	H2 mm	W mm	D mm	Weight kg	Order Code
0.18	0.25	1.4	2.1	6.4	A	170	146.5	45	128	0.55	ACS55-01N-01A4-1
0.37	0.5	2.2	3.3	9.5	A	170	146.5	45	128	0.6	ACS55-01N-02A2-1



ACS55-POT

Potentiometer

Description	Order Code
Potentiometer (price for 8 pieces)	ACS50-POT
ACS55 mounting clip (price for a set of 50 pieces)	ACS50-CLIP



4

Plastic Pushbutton Stations

- IP66 thermoplastic control station complete with actuator, contact blocks and legend plate. Supplied fully assembled. Other variations are available on request.



1GO



1RSC-EN



1K2 O-I

1 Way	Order Code
Start/Green	1GO
Stop/Red	1RC
Mushroom Head 30mm (twist release) 300V 5A Max - to IEC60947-5-5	1RSC
Emergency Stop 40mm (twist release) - to IEC60947-5-5	1RSC-EN
Mushroom Head 60mm (twist release) - to IEC60947-5-5	1RMSC50
Emergency Stop 40mm (with key release) 300V 5A Max - to IEC60947-5-5	1RMSKC
Two-position switch	1H2O-I
Two-position key switch (key removable both positions)	1K2O-I
Three position switch	1H3I-O-II
Three position key switch (key removable in all positions)	1K3I-O-II



Plastic Pushbutton Stations

- IP66 thermoplastic control station complete with actuator, contact blocks and legend plate. Supplied fully assembled. Other variations are available on request.

2 Gang	Order Code
Start/Green and Stop/Red	2GORC
Start/Green and Red/Emergency Stop 40mm (twist release) to IEC60947-5-5	2GORSC-EN

3 Gang	Order Code
Forward/Green - Stop/Red - Reverse/Green	3GOGORC
Two Green and Red/Emergency Stop 40mm (twist release) to IEC60947-5-5	3GOGORSC-EN

Stainless Steel Pushbutton Station IP65

- Fabricated from brushed 316 stainless steel complete with bolt on lid

1 Gang Stainless Steel	Order Code
Emergency Stop 40mm (stay-put) - to EN418	1RSC-ENSS

Stainless Steel Empty Enclosures 22.5mm IP65

- Fabricated from polished stainless steel complete with bolt on lid

Description	Order Code
1 Gang Empty Enclosure 55mm deep	01.001001.SS1
2 Gang Empty Enclosure 55mm deep	01.001002.SS2
3 Gang Empty Enclosure 55mm deep	01.001003.SS3

Spares

Spares	Order Code
Replacement contact block n/o (switch mounting)	MCB-10 •
Replacement contact block n/c (switch mounting)	MCB-01 •
Replacement contact block n/o (base mounting)	MCB-10B
Replacement contact block n/c (base mounting)	MCB-01B

- Use with stainless steel pushbutton station only



Terminals in Enclosures

Description	Number of Terminals	[A] (lth)	Order Code
Junction Box IP65 junction box with flexible knockouts	5	24	5-JBOX2.5 (Pack of 3)
Terminal Box 2.5mm IP55 plastic enclosure	5	24	5TERM 2.5
	10	24	10TERM 2.5
Terminal Box 4mm IP55 plastic enclosure	5	32	5TERM 4
	10	32	10TERM 4

Terminal Packs for Installers

Description	Order Code
This pack contains a selection of commonly used terminal blocks in a handy moulded plastic toolbox.	XUK001032

DIN Rail Mounting Terminal Blocks

- We have available from stock, an extensive range of DIN rail terminal blocks, which include screw clamp, IDC and spring connection technologies.
- We can supply custom pre-assembled terminal rails to order, please contact the sales department with your requirements.

We stock an extensive range of Entrelec Terminals contact sales desk for details.

Blister Pack terminals

Description	Order Code
M4/6 x 10 Blister Pack	1SNA390101R0100
M6/8 x 5 Blister Pack	1SNA390104R0400
M10/10 x 5 Blister Pack	1SNA390105R0500
FEM6 x 5 Blister Pack	1SNA390102R0200
M4/6.P x 5 Blister Pack	1SNA390103R0300
BAM2 x 6 Blister Pack	1SNA390106R0600
RC610 x 3 Blister Pack	1SNA390107R0700

Engraved Labels

- Engraved Traffolyte/PVC labels to customers specification
- Label size 100mm x 25mm
- Customer to supply text details
- Max text height one row 15mm
- Max text height two row 6mm

Description	Order Code
Engraved label - White surface/black text	TRAFOLYTE 1-WB
Engraved label - Blue surface/white text	TRAFOLYTE 2-BB
Engraved label - Red surface/white text	TRAFOLYTE 3-RW