

**Standard AC Induction Motor Starters**

*Cross Reference Guide, Basic Ratings & List Prices*

All range robust IP55 steel enclosures  
Brand **New** CC Range components  
Colour improved to RAL7035 Light Grey  
Improved push button actuators



Complete with integral Start/Stop Reset Push Buttons  
Provision for Remote Start/Stop as Standard  
Single or Three Phase Options available

**SERIES 2000**

Without Isolator/Mains Fuses			
Old Type	Max FLC	Power kW	List Price
S2000	415V		S2000
DL1--C	12A	5.5	£60.80
DL2--C	15A	7.5	£65.40
DL2--C	16A	7.5	£67.70
DL1--S	12A	5.5	£68.20
DL2--S	15A	7.5	£73.10
DL2--S	16A	7.5	£75.30
DL3--S	21A	11	£78.90
DL4--S	26A	11	£92.00
DL4--S	30A	15	£185.70
DL5--S	48A	26	£225.90
DL6--S	55A	30	£282.00
DL07--S	70A	37	£351.90
DL08--S	100A	55	£463.20
DL09--S	140A	75	£598.30
DL10--S	180A	90	£845.90
DL11--S	200A	110	£897.40
DL12--S	220A	132	£960.60

**New**  
**SERIES 3000**

**Enclosed Direct On Line - Type 3DL**

Without Isolator & Mains Fuses				With Isolator		With Isolator & Fuses		Note
New Code	Power kW	Max FLC	List Price	New Code	List Price	New Code	List Price	Max FLC With Isolator
S3000			S3000	S3000	S3000	S3000	S3000	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3DL1--S	5.5	12A	£60.80	3DL1--I	£135.40	3DL1--F	£176.60	12A
N/A								
3DL2--S	7.5	18A	£73.10	3DL2--I	£145.60	3DL2--F	£214.50	16A
3DL3--S	11	25A	£78.90	3DL3--I	£149.00	3DL3--F	£234.00	25A
N/A								
3DL4--S	15	32A	£109.70	3DL4--I	£169.80	3DL4--F	£264.10	30A
3DLA5..S	18.5	40A	£185.70	3DLA5..I	£275.20	3DLA5..F	£335.90	40A
3DL5--S	26	50A	£225.90	3DL5--I	£351.90	3DL5--F	£475.80	50A
3DL6--S	30	55A	£282.00	3DL6--I	£390.90	3DL6--F	£512.40	55A
3DL07--S	37	80A	£351.90	3DL07--I	£478.00	3DL07--F	£744.00	80A
3DL08--S	55	100A	£463.20	3DL08--I	£707.20	3DL08--F	£1,036.00	100A
3DL09--S	75	140A	£598.30	3DL09--I	£1,011.00	3DL09--F	£1,344.00	140A
3DL10--S	90	180A	£845.90	3DL10--I	£1,258.00	3DL10--F	£1,502.00	180A
3DL11--S	110	200A	£897.40	3DL11--I	£1,402.00	3DL11--F	£1,667.00	200A
3DL12--S	132	220A	£960.60	3DL12--I	£1,515.00	3DL12--F	£1,986.00	220A

**SERIES 2000**

Without Isolator/Mains Fuses			
Old Type	Max FLC	Power kW	List Price
S2000	415V		S2000
SD1..S	22A	11	£235.90
SD2..S	29A	15	£243.90
SD3..S	43A	22	£284.30
SD4..S	55A	30	£367.90
SD05..S	72A	37	£490.70
SD05..S	83A	45	£490.70
SD06..S	100A	55	£646.70
SD07..S	140A	75	£789.70
SD08..S	160A	90	£865.40
SD09..S	208A	110	£1,045.00
SD10..S	250A	150	£1,605.00
SD10..S	310A	185	£1,605.00
SD11..S	346A	200	£1,667.00
SD12..S	380A	220	£1,769.00

**New**  
**SERIES 3000**

**Enclosed Star Delta - Type 3SD**

Without Isolator & Mains Fuses				With Isolator		With Isolator & Fuses	
New Code	Power kW	Max FLC	List Price	New Code	List Price	New Code	List Price
S3000			S3000	S3000	S3000	S3000	S3000
3SD1..S	11	21A	£235.90	3SD1..I	£283.20	3SD1..F	£317.50
3SD2..S	15	30A	£243.90	3SD2..I	£287.70	3SD2..F	£335.90
3SD3..S	22	43A	£284.30	3SD3..I	£393.20	3SD3..F	£531.90
3SD4..S	30	55A	£367.90	3SD4..I	£530.70	3SD4..F	£620.10
3SDA5..S	37	69A	£469.30	3SDA5..I	£627.50	3SDA5..F	£793.70
3SD05..S	45	85A	£490.70	3SD05..I	£648.90	3SD05..F	£815.10
3SD06..S	55	98A	£646.70	3SD06..I	£939.50	3SD06..F	£1,111.00
3SD07..S	75	138A	£789.70	3SD07..I	£1,108.00	3SD07..F	£1,438.00
3SD08..S	90	161A	£865.40	3SD08..I	£1,349.00	3SD08..F	£1,677.00
3SD09..S	110	208A	£1,045.00	3SD09..I	£1,547.00	3SD09..F	£1,864.00
3SD10..S	150	250A	£1,605.00	3SD10..I	£2,809.00	3SD10..F	£3,387.00
3SD10..S	185	310A	£1,605.00	3SD10..I	£2,809.00	3SD10..F	£3,387.00
3SD11..S	200	346A	£1,667.00	3SD11..I	£2,855.00	3SD11..F	£3,538.00
3SD12..S	220	380A	£1,769.00	3SD12..I	£2,905.00	3SD12..F	£3,690.00

Add Coil Voltage & Overload req'd complete Starter Reference

For Starters without Overload deduct the relevant price below

Type 3DL	Type 3SD	Deduct
Up to 18A	Up to 30A	£27.00
18 to 25A	31 to 43A	£29.50

Others available on application

Standard Extras For Motor Starters					
Description	Enclosure	List Price	Description	Enclosure	List Price
Small Ammeter to 40A	Pressed	£65.60	Mushroom Head Stop	Pressed	£5.10
Ammeter Under 70A	All Types	£83.70	Latching Stop / Lock	All Types	£21.80
Ammeter Above 70A	All Types	£120.90	Thermistor Unit in place of Thermal Overload	Pressed	£45.60
Volt Meter	All Types	£83.70	Hand / Off / Auto Switch	Pressed	£22.60
Control Transformer	Pressed	£76.80	Hours Run Meter	All Types	£64.50
Anti-Con Heater	Pressed	£14.50	External Overload Reset	Hinged Panels	£32.70
Anti-Con Heater	Hinged	£32.60	Chassis Interiors Only	All Types	POA
Neon Indicator	Pressed	£15.30			
Filament Lamp	All Types	£35.00			

New

**SERIES 3000**

Complete with New

**RANGE**  
Components & Accessories



**Standard Starter Codes - All Products**

1 - Starter Type	
<b>Code</b>	
3DL	Direct On Line
3DR	Direct On Line Reverser
3SD	Star Delta
3DW	Dual Wound
3PC	Pole Change
3SP	Series Parallel
3DS	Duty Standby
3FS	Fan Shaker
3EBS	Enclosures Only
3DC	DC Injection Brake
3SG	Spinguard
3DLF	ATEX Direct On Line
3SDF	ATEX Star Delta

2 - Main Contactor Type	
<b>Code</b>	kW for 3DL/3SD
1	CC09 5.5 / 11
2	CC12 7.5 / 15
3	CC18 11.0 / 22
4	CC25 15.0 / 30
A5	CC32 18.5 / 37
5 (05 for 3SD)	CC40 26.0 / 45
6 (06 for 3SD)	CC50 30.0 / 55
07	CC65 37.0 / 75
08	CC80 55.0 / 90
09	TBA
10	TBA
11	TBA
12	TBA

3 - Contactor Coil Voltage & Frequency			
Dual 50/60Hz		60Hz Only	
<b>Standard</b>	Voltage		
A	110V		
C	230V		
D	24V		
E	400V		
F	440V		
I	48V		
<b>Special</b>	Voltage	<b>Special</b>	Voltage
B	120V	M	277V
X	380V	P	208V
R	220V	S	480V
Q	240V	U	600V
Y	415V	W	575V

4 - Overload Range				
<b>Code</b>	<b>DOL</b>	<b>Star Delta</b>	<b>Overload Relay</b>	<b>Fits Contactor</b>
X	0.16 - 0.25A		CR09/0.25	CC09 to CC32
A	0.25 - 0.4A		CR09/0.4	CC09 to CC32
B	0.4 - 0.63A		CR09/0.63	CC09 to CC32
D	0.63 - 1.0A		CR09/1	CC09 to CC32
E	1.0A - 1.6A		CR09/1.6	CC09 to CC32
F	1.6A - 2.5A	2.7 - 4.3A	CR09/2.5	CC09 to CC32
G	2.5 - 4.0A	4.3 - 6.9A	CR09/4	CC09 to CC32
H	4.0 - 6A	6.9 - 10.4A	CR09/6	CC09 to CC32
J	5.5 - 8A	9.5 - 13.8A	CR09/8	CC09 to CC32
K	7.0 - 10A	12 - 17A	CR09/10	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 - 66A	98 - 114A	CR63/66	CC40 to CC65
W	63 - 80A	109 - 138A	CRA80/80	CC40 to CC80
P	80 - 93A	138 - 161A	CRA80/93	CC40 to CC80
Y	<b>Thermistor Protection</b>			
Z	<b>Without Overload Fitted</b> (Wired for loose O/L to be fitted)			

5 - Variations	
<b>Code</b>	Starter Version
S	Standard
I	With Isolator
F	With Isolator & Mains Fuses/Switch Fuse*
L	With Mains Fuses
P	Plastic Enclosure
C	Plastic/Steel Enc
U	Un-enclosed (interior only)

**Example Starter Code**  
For a Star Delta Starter 400V, 3 Phase, 50Hz and Complete with Isolator, Ammeter and a Thermal Overload Range of 31 - 43 Amps.

The Standard Starter Code is:- 3SD3ENI/04



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

Pressed Steel Enclosure Dimensions		Fixings
Ref	H x W x D (mm)	H x W
Size 1	174 x 104 x 134	130 x 60
Size 2	184 x 184 x 149	140 x 140
Size 3	184 x 284 x 149	140 x 240
Size 4	305 x 285 x 159	260 x 240

Hinged Door Sheet Steel Enclosure Dimensions		
Various	On Application	

Prices for Standard Starters not listed, higher power ratings, interiors only/chassis versions and special variations are available on request. All information above is, as far as possible, correct at the time of publishing. However we reserve the right to alter specifications and prices without prior notice.

