



DIRECT-ON-LINE & STAR DELTA STARTER RANGE





OUR HERITAGE

For over 100 years, LOVATO Electric has been designing and manufacturing low voltage electrical devices for industrial applications.

The wide range of products is designed, industrialised, tested and built by LOVATO Electric. A team of designers and researchers develops innovative and reliable products using the most modern software tools available and an internal test laboratory (accredited in accordance with EN ISO/IEC 17025) carries out tests according to national and international standards.

The successes collected over time have allowed the company to open 15 international subsidiaries, and a network of over 90 importers that today guarantee the availability of LOVATO Electric products in over 100 countries in the world.



For four generations, our mission has been to create innovative and reliable products to satisfy the client's requirements, and it continues to be so today.

Massimiliano Cacciavillani - CEO

L-STARTER VERSATILITY

L-Starter is our UK brand offering a complete range of compact and standard direct-on-line starters.

There are options for built in isolators and reversing configurations up to 15kW, beyond this we have star-delta starters up to 75kW with built-in isolator options.

All our standard models provide ample room for ease of installation and come with clear and simple wiring instructions.

L-Starter Solutions provides bespoke starter solutions for OEM and unique volume applications. Starters can be manufactured to your bespoke requirements.

L-STARTER

COMPACT DIRECT ON-LINE STARTERS

OVERLOAD INCLUDED



DOLC

Order code	Overload Included	Control voltage [VAC]	Motor power at 400V [kW]	Horse power [HP]	Max motor current AC3 [A]	Dimensions H x W x D [mm]
DOLC0.75230	Yes	230	0.75	1	1.9	175 x 88 x 119
DOLC0.75400	Yes	400				
DOLC1.1230	Yes	230	1.1	1.5	2.7	
DOLC1.1400	Yes	400				
DOLC2.2230	Yes	230	2.2	3.0	5	
DOLC2.2400	Yes	400				
DOLC4.0230	Yes	230	4	5.5	8.6	
DOLC4.0400	Yes	400				

STANDARD DIRECT ON-LINE STARTERS

OVERLOAD NOT INCLUDED



DOLS

Order code	Overload included	Control voltage [VAC]	Motor power at 400V [kW]	Horse power [HP]	Max motor current AC3 [A]	Dimensions H x W x D [mm]
Compact direct on-line 3 phase starter				Requires RF9...overload		
DOLC5.5230	No	230	5.5	7.5	12	175 x 88 x 119
DOLC5.5400	No	400				

Standard direct on-line 3 phase starter				Requires RF38...overload		
DOLS5.5230	No	230	5.5	7.5	12	193 x 88 x 134
DOLS5.5400	No	400				
DOLS7.5230	No	230	7.5	10	18	193 x 88 x 134
DOLS7.5400	No	400				
DOLS11230	No	230	11	15	25	225 x 110 x 148
DOLS11400	No	400				
DOLS15230	No	230	15	20	28.5	
DOLS15400	No	400				



DOLSW

Standard direct on-line 3 phase starter with isolator				Requires RF38...overload		
DOLSW5.5230	No	230	5.5	7.5	12	225 x 110 x 148
DOLSW5.5400	No	400				
DOLSW7.5230	No	230	7.5	10	18	
DOLSW7.5400	No	400				
DOLSW11230	No	230	11	15	25	
DOLSW11400	No	400				
DOLSW15230	No	230	15	20	28.5	
DOLSW15400	No	400				



DOLR

Direct on-line 3 phase reversing starter FWD/STOP/REV					Requires RF38...overload	
DOLR5.5230	No	230	5.5	7.5	12	225 x 110 x 148
DOLR5.5400	No	400				
DOLR7.5230	No	230	7.5	10	18	
DOLR7.5400	No	400				
DOLR11230	No	230	11	15	25	
DOLR11400	No	400				

L-STARTER

ENCLOSED WITH PROTECTION CIRCUIT BREAKER



M2P00911

Order code	Thermal trip adjustment range	IEC technical characteristics (≤440V)		Qty per pkg	Wt
		I _e	kW		
	[A]	[A]	[kW]	n°	[kg]
M2P00911 0A4	0.63-1	1	0.25	1	1.450
M2P00911 0A5	1-1.6	1.6	0.37-0.55	1	1.450
M2P00911 0A6	1.6-2.5	2.5	0.75	1	1.515
M2P00911 0A7	2.5-4	4	1.1-1.5	1	1.515
M2P00911 0A8	4-6.5	6.5	2.2-3	1	1.515
M2P00911 0A9	6.3-10	10	3-5	1	1.515
M2P00911 0B0	9-14	13	5.5	1	1.515

0 Complete order code with coil voltage digit (if 50/60Hz) or with voltage digit followed by 60 (if 60Hz). Standard voltages are as follows:

-AC 50/60Hz 024 / 048 / 110 / 230 / 400V

-AC 60Hz 024 60 / 048 60 / 120 60 / 220 60 / 230 60 / 460 60 / 575 60 (V).

Example: M2P00911400A8 for direct-on-line starter in M2 type with reset and reset/emergency button, 9A/AC3 contactor with 400VAC 50/60Hz coil and motor protection circuit breaker 4...6.5A.

STAR-DELTA STARTERS IP65 POLYCARBONATE

OVERLOAD NOT INCLUDED



YD

Order code	Overload Included	Control voltage [VAC]	Motor power at 400V [kW]	Horse power [HP]	Max motor current AC3 [A]	Dimensions H x W x D [mm]
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Star delta starter

Requires RF38...overload

YD11 230	No	230	11	15	22	220 x 280 x 170
YD11 400	No	400				
YD15 230	No	230	15	20	28	
YD15 400	No	400				
YD22 230	No	230	22	30	43	
YD22 400	No	400				
YD30 230	No	230	30	40	60	
YD30 400	No	400				

Star delta starter with isolator

Requires RF38...overload

YDSW11 230	No	230	11	15	22	220 x 280 x 170
YDSW11 400	No	400				
YDSW15 230	No	230	15	20	28	
YDSW15 400	No	400				
YDSW22 230	No	230	22	30	43	
YDSW22 400	No	400				
YDSW30 230	No	230	30	40	60	
YDSW30 400	No	400				



YDSW

STAR-DELTA STARTERS IP65 STEEL ENCLOSED

OVERLOAD & ISOLATOR INCLUDED

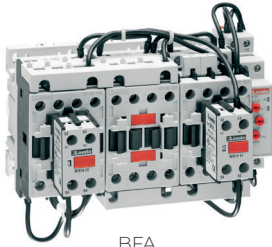


SDSI

Order code	Overload Included	Control voltage [VAC]	Motor power at 400V [kW]	Horse power [HP]	Max motor current AC3 [A]	Dimensions H x W x D [mm]
SDSI11 415	Yes	400	11	15	22	300 x 300 x 200
SDSI15 415	Yes	400	15	20	28	
SDSI22 415	Yes	400	22	30	42	
SDSI30 415	Yes	400	30	40	56	
SDSI45 415	Yes	400	45	60	83	500 x 400 x 200
SDSI55 415	Yes	400	55	75	98	
SDSI75 415	Yes	400	75	100	135	

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STAR-DELTA DIN RAIL OPEN FRAME



BFA

Order Code	Overload Included	Three-phase motor control. Max IEC current ($\leq 440V$) [A]	Motor power at 400V [kW]	Thermal overload relay required
BFA009 70*	No	16	7.5	RF38...
BFA012 70*	No	22	11	RF38...
BFA018 70*	No	28	15	RF38...
BFA025 70*	No	35	18.5	RF38...
BFA026 70*	No	43	22	RF38...
BFA038 70*	No	60	30	RF38...

*Complete with coil voltage 024, 110, 230, 400VAC. Overload relay not included

Larger frame sizes are available. Please refer to the General Catalogue.

THERMAL OVERLOAD RELAYS FOR DOLC STARTERS



RF9

Order code	Adjustment range [A]	Three Phase Motor at 400V DOL [kW]	Three Phase Motor at 400V Star Delta [kW]
RF9 1	0.6 - 1	0.37	-
RF9 1V5	0.9 - 1.5	0.55	-
RF9 2V3	1.4 - 2.3	0.75	-
RF9 33	2 - 3.3	1.1	-
RF9 5	3 - 5	1.5	-
RF9 75	4.5 - 7.5	2.2	-
RF9 10	6.3 - 10	4.0	-
RF9 15	9 - 15	5.5	-

THERMAL OVERLOAD RELAYS FOR DOLS, DOLSW, DOLR, YD AND YDSW STARTERS



RF38

Order code	Adjustment range [A]	Three Phase Motor at 400V DOL [kW]	Three Phase Motor at 400V Star Delta [kW]
RF38 0100	0.63 - 1	0.25	-
RF38 0160	1 - 1.6	0.55	-
RF38 0250	1.6 - 2.5	0.75	-
RF38 0400	2.5 - 4	1.5	2.2 - 3
RF38 0650	4 - 6.5	2.2	4
RF38 1000	6.3 - 10	4	5.5 - 7.5
RF38 1400	9 - 14	5.5	11
RF38 1800	13 - 18	7.5	15
RF38 2300	17 - 23	11	18.5
RF38 3200	24 - 32	15	22
RF38 3800	32 ~ 38A	18.5	30

IMPORTANT

For DOL starters select RF...overload relay above for setting motor at full load current (FLC)
For YD star-delta starters you must select the RF38...overload relay above for setting at 58% of full load current (FLC)

SPECIAL SOLUTIONS

L-Starter solutions provides bespoke starter assemblies for OEM and unique volume applications.

Starters can be manufactured to your specific needs.

In this image are starters pre-wired with plugs ready for rapid install with external fixings, removing the need for wiring by qualified persons.



For the full range of products and technical information, please see the general catalogue.
Available from lovato.co.uk



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