

Electric Motors, Starters & Relays



Hollow Shaft 110, 230 & 415 Volts.....	366
Fitted with Integrated Drive Coupling 415 Volts.....	366
Male Shaft 110, 230 & 415 Volts.....	367
Direct On-Line Starters.....	367 - 368
Thermal Overload Relays.....	368

Available from B&G Cleaning Systems
Call 0808 163 7983

Electric Motors

Hollow Shaft - 110, 230, 415 Volts - 1.5 to 10 Hp



110 Volts, Single Phase, 50 Hz - Hollow Shaft

Part No.	Hp	Kw	Amps	Rpm	IEC Frame	Capacitor	Shaft ø	Kg	IP Series Compatible	DOL Starter Kit Part No.
604-1038	1.5	1.1	17.4	1450	90L	Perm Cap	24mm	14.4	49-50-51	SK11-110-23
604-1039	2	1.5	20	1450	90L	Perm Cap	24mm	16	49-50-51	SK7.5-110-18
604-1002	1.5	1.1	16.5	2800	90L	Perm Cap	24mm	14	49-50-51	SK7.5-110-18

- B3 foot mount

230 Volts, Single Phase, 50 Hz - Hollow Shaft

Part No.	Hp	Kw	Amps	Rpm	IEC Frame	Capacitor	Shaft ø	Kg	IP Series Compatible	DOL Starter Kit Part No.
604-1022	2	1.5	10.4	1450	90L	Perm Cap	24mm	11	49-50-51	SK5.5-230-14
9000190	3	2.2	13.0	1450	100L	Perm Cap	24mm	23	44-49-50-51 53-58-60-63	SK7.5-230-18

Part No.	Hp	Kw	Amps	Rpm	IEC Frame	Capacitor	Shaft ø	Kg	IP Series Compatible	DOL Starter Kit Part No.
9000180	3	2.2	13.8	2800	90L	Perm Cap	24mm	18	49-50-51	SK7.5-230-18

- B3 foot mount

415 Volt, Three Phase, 50 Hz - Hollow Shaft

Part No.	Hp	Kw	Amps	Rpm	IEC Frame	Shaft ø	Kg	IP Series Compatible	DOL Starter Kit Part No.
604-1024	2	1.5	7.0	1450	90L	24mm	13	49-50-51	SK5.5-400-10
9001691	4	3	6.7	1450	100L	24mm	20	44-49-50-51 53-58-60-63	SK5.5-400-10
9000210	5.5	4	8.7	1450	112M-T	24mm	28	47-59-66	SK5.5-400-10
9000220	7.5	5.5	12.2	1450	112M-T	24mm	33	47-59-66	SK5.5-400-14
604-1014	10	7.5	18	1450	132S	24mm	46	47-59-66	SK7.5-400-23

- B3 foot mount

Fitted with Integrated Drive Coupling - 415 Volts 7.5 Hp

415 Volt, Three Phase, 50 Hz - Hollow Shaft

Part No.	Hp	Kw	Amps	Rpm	IEC Frame	Shaft ø	Kg	IP Series Compatible	DOL Starter Kit Part No.
604-2011	7.5	5.5	11.3	1450	P112	24mm	30	47-59-66	SK5.5-400-14

- B3 foot mount



Integrated Flexible Drive Coupling

Male Shaft Motors - 110, 230, 415 Volts - 0.33 to 25 Hp

110 Volts, Single Phase, 50 Hz - Male Shaft

Part No.	Hp	Kw	Amps	Rpm	IEC Frame	Capacitor	Shaft ø	Kg	DOL Starter Kit Part No.
604-1055	0.33	0.25	4.2	1450	71	Cap/Cap	14mm	6.5	SK7.5-110-07
604-1099	0.5	0.37	5.9	1450	71	Cap/Cap	14mm	7.5	SK7.5-110-07
604-1100	0.74	0.55	7.5	1450	80	Cap/Cap	19mm	10.5	SK7.5-110-10
604-1054	1	0.75	10.6	1450	80	Cap/Cap	19mm	11.5	SK7.5-110-14
604-1050	2	1.5	20.8	1450	90L	Cap/Cap	24mm	18	SK11-110-23
604-1020	3	2.2	29	1450	100L	Perm Cap	28mm	23	N/A
604-1098	3	2.2	29	1450	100L	Cap/Cap	28mm	23	N/A
604-1052	2	1.5	17.2	2800	90S	Cap/Cap	24mm	14	SK7.5-110-18
604-1053	3	2.2	26.8	2800	90L	Cap/Cap	24mm	18	N/A

- B3 foot mount - B14C face



230 Volts, Single Phase, 50 Hz - Male Shaft

Part No.	Hp	Kw	Amps	Rpm	IEC Frame	Capacitor	Shaft ø	Kg	DOL Starter Kit Part No.
604-1056	1	0.75	5.1	1450	80	Perm Cap	19mm	12	SK5.5-230-07
604-1060	2	1.5	9.4	1450	90L	Perm Cap	24mm	18	SK5.5-230-14
9000250	3	2.2	13.0	1450	100L	Perm Cap	28mm	24	SK7.5-230-18

Part No.	Hp	Kw	Amps	Rpm	IEC Frame	Capacitor	Shaft ø	Kg	DOL Starter Kit Part No.
604-1000	3	2.2	13.8	2800	90L	Perm Cap	24mm	17	SK7.5-230-18

- B3 foot mount - B14C face



415 Volt, Three Phase, 50 Hz - Male Shaft

Part No.	Hp	Kw	Amps	Rpm	IEC Frame	Shaft ø	Kg	DOL Starter Kit Part No.
604-1065	0.74	0.55	1.52	1450	80	19mm	8.5	SK5.5-400-02
604-1107	1.0	0.75	1.81	1450	80	19mm	11	SK5.5-400-03
604-1066	1.48	1.1	2.5	1450	90S	24mm	15	SK5.5-400-04
604-1072	2.0	1.5	6.38	1450	90L	24mm	16.9	SK5.5-400-07
604-1115	3.0	2.2	8.5	1450	100L	28mm	22	SK5.5-400-10
9002101	4	3	6.5	1450	100L	28mm	21	SK5.5-400-10
9001751	5.5	4	8.3	1450	112M-T	28mm	29	SK5.5-400-10
9001761	7.5	5.5	11.2	1450	112M-T	28mm	34	SK5.5-400-14
604-1017	10	7.5	18.0	1450	132S	38mm	48	SK7.5-400-23
604-1015	15	11	20.9	1450	132	38mm	59	SK11-400-23
604-1063	20.5	15	28.4	1450	160L	42mm	90	N/A
604-1045	25	18	35.0	1450	160L	42mm	107	N/A

Part No.	Hp	Kw	Amps	Rpm	IEC Frame	Shaft ø	Kg	DOL Starter Kit Part No.
9000240	3	2.2	4.6	2800	90L	24mm	15	SK5.5-400-07
9000260	5.5	4	7.9	2800	100L	28mm	23	SK5.5-400-10
604-1006	7.5	5.5	11.9	2800	100L	28mm	32	SK5.5-400-14

- B3 foot mount - B14C face



DOL Starter Kits



Our Direct On-Line starter kits are spec'd for each of our motors and include an IP68 rated enclosure with BF series contactor with start/stop/rest functions and a suitable RF38 series Thermal Overload Relay. The components are supplied in kit form and must be assembled and set by a qualified technician. Power cables & glands not included.

All motors must be installed by a qualified engineer using suitable motor protection components

Starters & Relays



Suitable RF38 thermal overload relay must be paired with starter. Select starter and overload based on full load current of your motor.

Lovato Direct On-Line Starters

Part No.	Control Voltage (VAC)	Motor Power at 400V (kW)	Max Motor Current AC3 (Amps)	Dimensions, mm
DOLS5.5230	230	5.5	12	193H x 88W x 134D
DOLS5.5400	400	5.5	12	193H x 88W x 134D
DOLS7.5110	110	7.5	18	193H x 88W x 134D
DOLS7.5230	230	7.5	18	193H x 88W x 134D
DOLS7.5400	400	7.5	18	193H x 88W x 134D
DOLS11110	110	11	25	225H x 110W x 148D
DOLS11230	230	11	25	225H x 110W x 148D
DOLS11400	400	11	25	225H x 110W x 148D
DOLS15230	230	15	32	225H x 110W x 148D
DOLS15400	400	15	32	225H x 110W x 148D

- Rated to IP68
- Insulated polycarbonate enclosure
- Heavy-duty BF series contactor
- -25 to 60°C operating temperature
- -40 to 70°C storage temperature
- Complies to IEC/EN 60947-1 & IEC/EN60947-4-1



Suitable RF38 thermal overload relay must be paired with starter. Select starter and overload based on full load current of your motor.

Lovato Direct On-Line Starters with Isolator

Part No.	Control Voltage (VAC)	Motor Power at 400V (kW)	Max Motor Current AC3 (Amps)	Dimensions, mm
DOLSW7.5110	110	7.5	18	225H x 110W x 148D
DOLSW5.5230	230	5.5	12	225H x 110W x 148D
DOLSW5.5400	400	5.5	12	225H x 110W x 148D
DOLSW7.5230	230	7.5	18	225H x 110W x 148D
DOLSW7.5400	400	7.5	18	225H x 110W x 148D
DOLSW11230	230	11	25	225H x 110W x 148D
DOLSW11400	400	11	25	225H x 110W x 148D
DOLSW15400	400	15	32	225H x 110W x 148D

- Rated to IP68
- Insulated polycarbonate enclosure
- Heavy-duty BF series contactor
- -25 to 60°C operating temperature
- -40 to 70°C storage temperature
- Complies to IEC/EN 60947-1 & IEC/EN60947-4-1



Lovato RF38 Thermal Overload Relays

Part No.	Adjustment Range (Amps)	Three Phase Motor at 400V DOL (kW)*
RF380100	0.63 - 1	0.25
RF380160	1 - 1.6	0.55
RF380250	1.6 - 2.5	0.75
RF380400	2.5 - 4	1.5
RF380650	4 - 6.5	2.2
RF381000	6.3 - 10	4
RF381400	9 - 14	5.5
RF381800	13 - 18	7.5
RF382300	17 - 23	11
RF383200	24 - 32	15

- Phase failure sensitive
- Single phase sensitive
- -25 to 55°C operating temperature
- -50 to 70°C storage temperature
- Complies to IEC/EN 60947-1 & IEC/EN60947-4-1
- *Applies to 4 pole motors