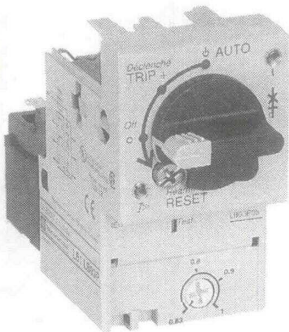


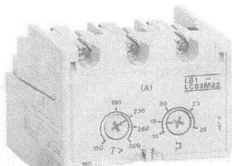
Table 3: Overload protection modules (Class 10, ambient compensated)

Thermal setting range, Amperes	Magnetic setting range, Amperes	Standard module with thermal & magnetic trip Catalog No. ■	Magnetic only module	Price
For 18 Ampere models				
.1 - .16	—	LB1LB03P01	N/A	\$ 86
.16 - .25	—	LB1LB03P02	N/A	86
.25 - .4	—	LB1LB03P03	N/A	86
.4 - .63	—	LB1LB03P04	N/A	86
.63 - 1	—	LB1LB03P05	N/A	86
1 - 1.6	—	LB1LB03P06	N/A	86
1.6 - 2.5	—	LB1LB03P07	N/A	86
2.5 - 4	—	LB1LB03P08	N/A	86
4 - 6	—	LB1LB03P10	N/A	86
6 - 10	—	LB1LB03P13	N/A	86
10 - 16	—	LB1LB03P17	N/A	86
12 - 18	—	LB1LB03P21	N/A	86
For 32 Ampere models				
.25 - .40	2.4 - 4.8	LB1LC03M03	LB6LC03M03	86
.40 - .63	3.8 - 7.6	LB1LC03M04	LB6LC03M04	86
.63 - 1.0	6.0 - 12	LB1LC03M05	LB6LC03M05	86
1.0 - 1.6	9.5 - 19	LB1LC03M06	LB6LC03M06	86
1.6 - 2.5	15 - 30	LB1LC03M07	LB6LC03M07	86
2.5 - 4.0	24 - 48	LB1LC03M08	LB6LC03M08	86
4.0 - 6.3	38 - 76	LB1LC03M10	LB6LC03M10	86
6.3 - 10	60 - 120	LB1LC03M13	LB6LC03M13	101
10 - 16	95 - 190	LB1LC03M17	LB6LC03M17	116
16 - 25	150 - 300	LB1LC03M22	LB6LC03M22	131
23 - 32	190 - 380	LB1LC03M53	LB6LC03M53	144
For 63 Ampere models				
18 - 25	150 - 300	LB1LD03M22	LB6LD03M22	159
23 - 32	190 - 380	LB1LD03M53	LB6LD03M53	159
28 - 40	240 - 480	LB1LD03M55	LB6LD03M55	159
35 - 50	300 - 600	LB1LD03M57	LB6LD03M57	173
45 - 63	380 - 760	LB1LD03M61	LB6LD03M61	173

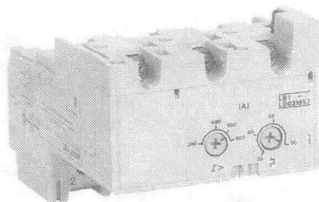
■ Integral 18 protection module is a fixed magnetic type set to trip at 15 x FLA.



LB1LB03P05



LB1LC03M22



LB1LD03M57

Specifications

Operating Positions:		UL Listed and CSA certified	
		Conforms to IEC standards	
Rated voltage - 600V		Shock resistance - 8 g (Duration of impulse: 11ms)	
Rated thermal current - 18A (Integral 18), 32A (Integral 32) 63A (Integral 63)		Vibration resistance - 3 g (5 to 150 Hz)	
Interrupting current at 480V: 42 kA ms		AC control circuit temperature limits: Storage -40° to +176°F/-40° to +80°C Operation -13° to +104°F/-25° to +70°C	
Mechanical life: Integral 18 Integral 32 Integral 63	20 million operations 10 million operations 5 million operations	Operating current of magnetic trip is approximately 13 times maximum thermal trip (non-adjustable setting)	

15 IEC STYLE CONTACTORS AND STARTERS

Dimensions Page 15-51 — 15-53
 Accessories Page 15-46 — 49
 Replacement Coils Page 15-49

For additional information, reference catalog number 8539CT9201R6/97 or D-Fax™ number 1617, 1635.

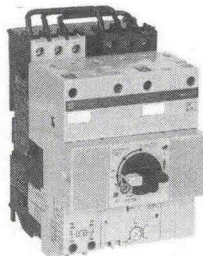


Integral™ Self-Protected Starters

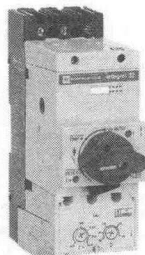
Open and Enclosed Devices



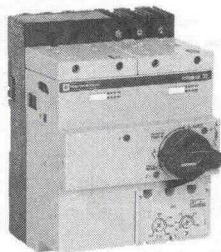
LD1LB030 •



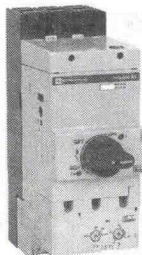
LD5LB130 •



LD4LC030 •



LD5LC030 •



LD4LD030 •

- Non-reversing and reversing starters available in 18, 32 or 63 ampere ratings.
- Combines motor disconnect, short-circuit protection, contactor and overload relay for totally coordinated motor circuit protection
- Current-limiting short-circuit protection provides 42kA interrupt rating
- UL listed as a category E combination motor controller
- UL verified to meet "Type 2" coordination protection per IEC 947-4.
- Meets "Total Coordination" requirements of IEC 947-6 -- no damage to contactor or overload relay, and no welding of contacts after interruption of short-circuit faults.
- Padlockable isolation knob
- Minimum 1.5 million operation life expectancy
- Control direct from PLC or PC with optional interface modules.

To order an Integral starter, simply complete these four steps:

1. Select the correct starter from Table 1A or Table 1B (open or enclosed).
2. Complete the catalog number by adding the coil voltage code from Table 2.
3. Choose the appropriate protection module from Table 3.
4. For enclosed starters only, select any desired INSTA-KIT™ or factory modifications from Table 4 (page 15-50). For factory modification, add the "form" number to the end of the catalog number.

Table 1A: Open style Integral starter base unit selection table ■

Continuous Current Rating Amperes	Maximum 3-Phase HP Rating			With Isolator		Without Isolator	
	230V	460V	575V	Catalog Number	Price	Catalog Number	Price
Non-Reversing							
18	5	10	15	LD1LB030*	\$ 202.	N/A	N/A
32	10	20	30	LD4LC030*	318.	LD1LC030*	\$289.
63	20	40	60	LD4LD030*	621.	LD1LD030*	650.
Reversing							
18	5	10	15	LD5LB130*	445.	N/A	N/A
32	10	20	30	LD5LC030*	606.	N/A	N/A
63	20	40	60	LD5LD030*	1270.	N/A	N/A

Table 1B: Enclosed Integral starter selection table ■ □

Continuous Current Rating Amperes	Maximum 3-Phase HP Rating			Type 1 Enclosure		Type 12 Enclosure	
	230V	460V	575V	Catalog Number	Price	Catalog Number	Price
Non-Reversing							
18	5	10	15	LE1UI1846*	\$ 347.	LE1UI1847*	\$ 520.
32	10	20	20	LE1UI3246*	491.	LE1UI3247*	578.
63	20	40	60	LE1UI6346*	650.	LE1UI6347*	953.
Reversing							
18	5	10	15	LE2UI1846*	693.	LE2UI1847*	866.
32	10	20	20	LE2UI3246*	866.	LE2UI3247*	953.
63	20	40	60	LE2UI6346*	1617.	LE2UI6347*	1704.

* Complete the catalog number by adding the voltage code from Table 2

Note: Enclosed I32 non-reversing starters will not accept the field installation of the remote reset module.

Table 2: Coil voltage codes

Integral	Frequency Hz	Control Voltage									
		24	48	110	120	220	240	380	415	480	600
I18	50	B	E	F	-	M	U	Q	N	-	-
	60	BC	D	K	FC	LC	MC	-	-	N	S
	DC ■	BD	-	-	-	-	-	-	-	-	-
I32	50	B	E	F	-	M	U	Q	N	-	-
	60	BC	D	FC	FC	MC	MC	-	-	Q	S
	DC ■	BD	ED	FD	-	-	-	-	-	-	-
I63	50	B	E	F	-	M	U	Q	N	-	-
	60	BC	CE	K	FC	LC	MC	-	-	Q	S
	DC ■	BD	ED	FD	-	-	-	-	-	-	-

■ Integral base units ordered with DC voltage code (BD, ED or FD) are shipped with LA1L080D Voltage Converter Module installed. Add \$87 to base price of non-reversing I18 and I32 starters and (\$116 to I63); and \$174 to reversing I18 and I32 starters (\$232 to I63).

□ A larger enclosure may be required for certain accessories. Consult factory for details.

For additional information, reference catalog number 8539CT9201R6/97 or D-Fax™ number 1617, 1635.

