

Eaton Definite Purpose Contactors NEMA 1 Enclosure



- UL Recognized and CSA Certified Definite Purpose Contactors (UL File #E-1491, Guide NLDX2, CSA File #LR353, Guide 380W-1.14 Class 3211 04)
- NEMA 1 General Purpose Enclosure
- No Heaters Required
- Class 10 Trip Overload
- Bi-Metallic Ambient Compensated Operated
- Trip Free Mechanism
- Shrouded or Finger Proof Terminals to Reduce Possibility of Electrical Shock
- Single Phase Sensitivity
- Stake On Incoming Line For Auxiliary Components
- RoHS Compliant

Hp and Voltage Selection Chart

HP	208V 3-Phase Part No.	230V 3-Phase Part No.	460V 3-Phase Part No.	230V 1-Phase Part No.
1.0	A27CGD15B006	A27CGD15B006	A27CGD15C2P4	B27CGD15B010
1.5	A27CGD15B010	A27CGD15B006	A27CGD15C004	B27CGD15B010
2.0	A27CGD15B010	A27CGD15B010	A27CGD15C004	B27CGD15B016
3.0	A27CGD15B016	A27CGD15B010	A27CGD15C006	B27CGD25B024
5.0	A27CGD25B024	A27CGD25B016	A27CGD15C010	B27CGF30B040
7.5	A27CGD25B032	A27CGD25B024	A27CGD25C016	B27CGF40B040
10	A27CGF30B040	A27CGF30B040	A27CGD25C016	B27CGF45B057
10	A27CGF40B040	A27CGF40B040	-	-
15	A27CGF45B057	A27CGF45B057	A27CGF30C024	-
20	-	-	A27CGF40C040	-
25	-	-	A27CGF45C040	-
30	-	-	A27CGF45C040	-

Model Number Explanation

A27CGD	15	B	006		
Starter Part No.	Full Load Amp	Coll Voltage	Overload Code	Overload Range	Contact Amp Range
3 Phase Models	15	A 120V	1P6	1 - 1.6	15 - 25A
A27CGD (15 - 25 FLA)	25	B 208V/230V	2P4	1.6 - 2.4	15 - 25A
A27CGF (30 - 45 FLA)	30	C 460V	004	2.4 - 4	15 - 25A
1 Phase Models	40		006	4 - 6	15 - 25A
B27CGD (15 - 25 FLA)	45		010	6 - 10	15 - 25A
B27CGF (30 - 45 FLA)			016	10 - 16	15 - 25A
			024	16 - 24	15 - 25A
			032	24 - 32	15 - 25A
			024	16 - 24	30 - 45A
			040	24 - 40	30 - 45A
			057	40 - 57	30 - 45A

Notes

1. The starter overload ranges selected are an average rating. These ratings could be high or low for a specific motor. For fully reliable motor protection it is best to select your starter based on the full load current rating as shown on the motor name plate. See chart above for specific overload ranges available.
2. For larger Hp Starters, see page 2

Eaton IEC Contactors NEMA 1 Enclosure



- UL Listed
- NEMA 1 General Purpose Enclosure (Standard)
- NEMA 12 (Dust Tight) and NEMA 4 (Weather Tight) Enclosures Available
- Non-Reversing IEC Contactor
- 1 N.O. , 1 N.C. Contact Standard
- No Heaters Required
- Class 10 Trip Overload
- Bi-Metallic Ambient Compensated Operated
- Trip Free Mechanism
- Shrouded or Finger Proof Terminals to Reduce Possibility of Electrical Shock
- Single Phase Sensitivity
- RoHS Compliant

HP and Voltage Selection Chart

HP	208V 3-Phase Part No.	230V 3-Phase Part No.	460V 3-Phase Part No.	230V 1-Phase Part No.
5	ECX09F1EAA-M	ECX09F1BAA-L	ECX09C1CAA-J	ECX09G1BAA-M
7.5	ECX09H1EAA-N	ECX09G1BAA-M	ECX09D1CAA-K	ECX09J1BAA-Q
10	ECX09J1EAA-P	ECX09H1BAA-N	ECX09F1CAA-L	—
15	ECX09K1EAA-Q	ECX09K1BAA-P	ECX09G1CAA-M	—
20	ECX09L1EAA-R	ECX09K1BAA-Q	ECX09H1CAA-N	—
20	ECX09L1EAA-R	ECX09L1BAA-R *	-	—
25	ECX09M1EAA-EE4 **	ECX09L1BAA-R	ECX09J1CAA-P	—
25	ECX09M1EAA-EE4 **	ECX09M1BAA-EE4 **, **	-	—
30	ECX09P1EAA-V	ECX09M1BAA-EE4 **	ECX09J1CAA-P	—
40	—	—	ECX09L1CAA-R	—
50	—	—	ECX09L1CAA-R	—
60	—	—	ECX09M1CAA-EE4 **	—

IEC Model Number Explanation

ECX09	M	1	E	A	A	V
Starter Type	Contactor Size	General Purpose Enclosure	Voltage Code	Plain Cover	No Disconnect	Overload Range (FLA)
IEC Non Reversing Starter	C 9 FLA		A 120V			J 6-10
	D 12 FLA		B 230V			K 9-12
	F 18 FLA		C 460V			L 12-16
	G 25 FLA		E 208V			M 16-24
	H 32 FLA					N 24-32
	J 40 FLA					P 24-40
	K 50 FLA					Q 40-57
	L 65 FLA					R 50-65
	M 80 FLA					U 50-70
	P 115 FLA					V 70-100

Notes

1. The starter overload ranges selected are an average rating. These ratings could be high or low for a specific motor. For fully reliable motor protection it is best to select your starter based on the full load current rating as shown on the motor name plate. See chart above for specific overload range.

2. Specify 304 stainless steel or non metallic enclosure when ordering NEMA 4X enclosures

* Recommended for heavy duty or continuous repeated stop start applications.

** All models include the standard overload relay, except for the ECX09M series which is equipped with the EE4 electronic overload. The EE4 electronic overload is more adaptable to the various motor manufacturer's with different service factors. The EE4 includes 5, 10, 20 and 30 second quick trip options. For highly critical motor applications typically a 5 second dip switch will be used. If a motor can accept a heavier load for an extended period of time the 30 second dip switch can be used. Most pumps and compressors use either the 10 or 20 second dip switch.

The EE4 Includes

- 5, 10, 20 and 30 second trip options
- Manual/automatic reset
- Phase loss protection, trips within 10 seconds (checks imbalance between the three phases)
- Blinking LED light on when overload is operational

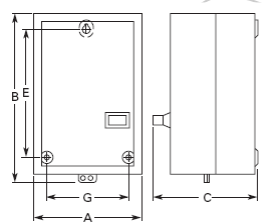
Definite Purpose and IEC Field Installed Accessories

				
Start/Stop Switch C600M13	H-O-A Selector Switch C600M12	Start/Stop Switch C400GK1-GD	H-O-A Selector Switch C400GK3-GD	
Description	Start/Stop Switch w/Mounting Flange	H-O-A Selector Switch w/Mounting Flange	Test/Off/Auto Selector Switch (A27 & B27 Series)	Test/Off/Auto Selector Switch (EXC09 Series)
Part No.	Part No.	Part No.	Part No.	Part No.
A27 & B27 starters (manufactured after 10-2015)	C600M13	C600M12	C600M8	
ECX09 starters 9-32 FLA (manufactured after 11-2015)				
ECX09 40-115 FLA (where the enclosure size remained the same. See details on chart below)	C400GK1-GD	C400GK3-GD		C400GK8-GD
				
Side Mount Auxiliary Contact 1 N.O. Contact (A27, B27 Series)	Side Mount Auxiliary Contact 1 N.O., 1 N.C. (A27, B27 Series)	Side Mount Auxiliary Contact 1 N.O., 1 N.C. (IECX09 Series)		
Part No.	Part No.	Part No.		
C320KG1	C320KG3	XTCEXSBN11		

Notes

- 1 N.O., 1 N.C. auxiliary contact is recommended when installing the above switches on the A27 and B27 Definite Purpose Contractors
- The auxiliary contact shall mount on the right side of the enclosure when looking at the box for A27 & B27 series manufactured after 10-2015.
- The auxiliary contact shall mount on the left side of the enclosure when looking at the box for A27 & B27 series manufactured before 10-2015

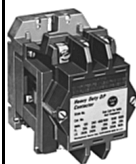
Definite Purpose A27 and B27 Dimensions

		New Dimensions 10-2015		
		A (Width)	B (Height)	C (Depth)
All DP Starters		6.00	10.73	6.14
		Dimensions Prior to 10-2015		
15, 25, & 30 FLA		5.63	10.17	5.81
40, & 45 FLA		7.64	13.27	6.67

IEC ECX09 Dimensions

NEMA 1 Enclosure Prior to 11-2015				NEMA 1 Enclosure After 11-2015			
	Height	Width	Depth		Height	Width	Depth
ECX09C-ECX09G	9.51	5.62	4.81	ECX09C - ECX09G	10.73	6.00	6.14
ECX09H -ECX09K	12.60	7.73	5.84	ECX09H	10.73	6.00	6.14
ECX09L	12.60	7.73	5.84	ECX09J - ECX09K	12.60	7.73	5.84
ECX09M	13.87	12.67	6.87	ECX09L	12.60	7.73	5.84
ECX09P	25.99	11.66	8.03	ECX09M	13.87	12.67	6.87
				ECX09P	25.99	11.66	8.03

Definite Purpose A27 and B27 Replacement Parts



Replacement Contactors with Coll

Contactor Model No.	FLA	208V/230V Part No.	460V Part No.	120V Part No.
A27CGD15, B27CGD15	15	C25DND315B	C25DND315C	C25DND315A
A27CGD25, B27CGD25	25	C25DND325B	C25DND325C	C25DND325A
A27CGF30, B27CGF30	30	C25DND330B	C25DND330C	C25DND330A
A27CGF40, B27CGF40	40	C25DNF340B	C25DNF340C	C25DNF340A
A27CGF45, B27CGF45	45	C25DNJ350B	C25DNJ350C	C25DNJ350A

Replacement Overloads

Overload Code	Range	Part No.	Frame Size	For Use with Contactor Amp Range
Replacement Overloads for 15-25 Amp Contactors				
1P6	1-1.6	XT0B1P6CC1-DP	C	15-25
2P4	1.6-2.4	XT0B2P4CC1-DP	C	15-25
004	2.4-4	XT0B004CC1-DP	C	15-25
006	4-6	XT0B006CC1-DP	C	15-25
010	6-10	XT0B010CC1-DP	C	15-25
016	10-16	XT0B016CC1-DP	C	15-25
024	16-24	XT0B024CC1-DP	C	15-25
032	24-32	XT0B032CC1-DP	C	15-25
Replacement Overloads for 30-45 Amp Contactors				
024	16-24	XT0B024DC1-DP	D	30-45
040	24-40	XT0B040DC1-DP	D	30-45
057	40-57	XT0B057DC1-DP	D	30-45



Replacement Coils

3-Phase Starter Model No.	1-Phase Starter Model No.	208/230V	460V	110V
A27CGD15	B27CGD15	9-3185-2	9-3185-3	9-3185-1
A27CGD25	B27CGD25	9-3185-2	9-3185-3	9-3185-1
A27CGF30	B27CGF30	9-3185-2	9-3185-3	9-3185-1
A27CGF40	B27CGF40	9-3185-2	9-3185-3	9-3185-1
A27CGF45	B27CGF45	9-3186-2	9-3186-3	9-3186-1



IEC ECX09 Replacement Parts

Replacement Contactors with Coll



Model No.	FLA	208V Part No.	230V Part No.	460V Part No.	120V Part No.
ECX09C	9	XTCE009B10E	XTCE009B10B	XTCE009B10C	XTCE009B10A
ECX09D	12	XTCE012B10E	XTCE012B10B	XTCE012B10C	XTCE012B10A
ECX09F	18	XTCE018C10E	XTCE018C10B	XTCE018C10C	XTCE018C10A
ECX09G	25	XTCE025C10E	XTCE025C10B	XTCE025C10C	XTCE025C10A
ECX09H	32	XTCE032C10E	XTCE032C10B	XTCE032C10C	XTCE032C10A
ECX09J	40	XTCE040D00E	XTCE040D00B	XTCE040D00C	XTCE040D00A
ECX09K	50	XTCE050D00E	XTCE050D00B	XTCE050D00C	XTCE050D00A
ECX09L	65	XTCE065D00E	XTCE065D00B	XTCE065D00C	XTCE065D00A
ECX09M	80	XTCE080F00E	XTCE080F00B	XTCE080F00C	XTCE080F00A
ECX09P	115	—	XTCE115G00B	—	XTCE115G00A

Replacement Overloads



Overload Code	Range	Part No.	Frame Size	For Use With Contactor Amp Range
J	6-10	XTOB010BC1	B	7-15
K	9-12	XTOB012BC1	B	9-15
L	12-16	XTOB016CC1	C	12-15
M	16-24	XTOB024CC1	C	18-32
N	24-32	XTOB032CC1	C	25-32
P	24-40	XTOB040DC1	D	40-72
Q	40-57	XTOB057DC1	D	50-72
R	50-65	XTOB065DC1	D	65-72
U	50-70	XTOB070GC1	G	80-170
V	70-100	XTOB100GC1	G	80-170

Note:
Overloads are interchangeable between models numbers providing the frame size of the contactor and overload are the same.
F and G frames sizes are considered the same frame size.

Replacement Coils



Model No.	208V Part No.	230V Part No.	460V Part No.	120V Part No.
ECX09F, ECX09G, ECX09H	XTCERENCOILCE	XTCERENCOILCB	XTCERENCOILCC	XTCERENCOILCA
ECX09J, ECX09K, ECX09L	XTCERENCOILDE	XTCERENCOILDB	XTCERENCOILDC	XTCERENCOILDA
ECX09M	XTCERENCOILFE	XTCERENCOILFB	XTCERENCOILFC	XTCERENCOILFA
ECX09P	XTCERENCOILGB	-	-	XTCERENCOILGA

Note:
Replacement coils are not available for models ECX09C & ECX09D