

ABB BALDOR RELIANCE III

Customer information packet

CEM3660T

3HP, 3470RPM, 3PH, 60HZ, 182TC, 0620M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.800 A @ 460.0 V 7.600 A @ 230.0 V 8.200 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	H
Type	AC
Mech. spec.	06F057
Base	
Status	PRD/A
Elec. spec.	06WGY471
Layout	06LYF057
Eff. date	02-26-2025
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	01-21-2016

High Voltage Full Load Amps	3.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0618M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.98 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3470 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP1259L											
CAT.NO.	CEM3660T										
SPEC.	06F057Y471G1										
HP	3										
VOLTS	230/460										
AMP	7.6/3.8										
RPM	3470										
FRAME	182TC		HZ	60				PH	3		
SER.F.	1.15	CODE	K	DES	B	CL	F				
NEMA-NOM-EFF	86.5	PF	89								
RATING	40C AMB-CONT										
CC	010A										
DE	6206		ODE	6205							
ENCL	TEFC	SN									

AC Induction Motor Performance Data

Record # 55359

Typical performance - not guaranteed values

Winding: 06WGY471-R001			Type: 0618M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		4.51 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		7.6/3.8	Breakdown Torque		25.5 LB-FT		
R.P.M.		3470	Pull-up Torque		9.08 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		11.9 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		29.3 A
Service Factor (S.F.)		1.15		No-load Current		1.64 A	
NEMA Nom. Eff.		86.5	Power Factor	89	Line-line Res. @ 25°C		6.11 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		45°C	
S.F. Amps				Temp. Rise @ S.F. Load		48°C	
				Locked-rotor Power Factor		58.7	
				Rotor inertia		0.0795 LB-FT2	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	70	81	87	90	91	90
Efficiency	81.1	86.6	87.5	86.7	85.3	83.2	87.6
Speed	3568	3538	3505	3468	3430	3382	3456
Line amperes	1.82	2.29	2.94	3.71	4.53	5.5	4.12

ABB Motors and Mechanical Inc.

WINDING # 06WGY471

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3470 RPM 460 V 0618M

TORQUES (LB-FT): PO=25.5 PU=9.08 LR=11.9 LRA=29.3





