

ABB BALDOR RELIANCE III

Customer information packet

CEM3768T

5HP, 1160RPM, 3PH, 60HZ, 215TC, 0746M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
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	15.300 A @ 208.0 V 7.400 A @ 460.0 V 14.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	S
Type	AC
Mech. spec.	07H058
Base	
Status	PRD/A
Elec. spec.	07WGY763
Layout	07LYH058
Eff. date	08-10-2026
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	06-16-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	7.4 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 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0746M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.20 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1160 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

NP3441LUA									
CAT.NO.	CEM3768T								
SPEC	07H058Y763G1								
HP	5								
VOLTS	230/460								
AMPS	14.8/7.4								
RPM	1160								
FRAME	215TC		HZ	60		PH	3		
SF	1.15	CODE	K	DES	A	CLASS	F		
NEMA NOM. EFF	89.5	PF	71						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	SER							
DE	6307		ODE	6206					
VPWM INVERTER READY	SFA 16.6/8.3								
CT6-60H(10:1)VT3-60H(20:1									
	50Hz 5HP 190/380V 17.2/8.6A								

AC Induction Motor Performance Data

Record # 50558

Typical performance - not guaranteed values

Winding: 07WGY763-R005			Type: 0746M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		22.8 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		14.8/7.4	Breakdown Torque		81.3 LB-FT		
R.P.M.		1160	Pull-up Torque		49.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		59.9 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		54.8 A
Service Factor (S.F.)		1.15	No-load Current		4.03 A		
NEMA Nom. Eff.		89.5	Power Factor	71	Line-line Res. @ 25°C		1.64 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		50°C
S.F. Amps					Temp. Rise @ S.F. Load		61°C
					Locked-rotor Power Factor		22.2
					Rotor inertia		1.14 LB-FT ²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	51	63	70	74	76	72
Efficiency	84.9	89.7	90.6	90.4	89.2	87.7	89.7
Speed	1190	1181	1174	1164	1153	1141	1157
Line amperes	4.32	5.06	6.12	7.48	8.92	10.5	8.34

ABB Motors and Mechanical Inc.

WINDING # 07WGY763

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1160 RPM 460 V 0746M

TORQUES (LB-FT): PO=81.3 PU=49.9 LR=59.9 LRA=54.8





