

ABB BALDOR RELIANCE III

Customer information packet

EM3582T-G

1HP, 1170RPM, 3PH, 60HZ, 143T, 0526M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143T
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM UR
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	1.500 A @ 460.0 V 3.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a

Part Detail

Revision	C
Type	AC
Mech. spec.	05G784
Base	
Status	PRD/A
Elec. spec.	05WGX571
Layout	05LYG784
Eff. date	09-05-2025
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0524M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	12.54 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1170 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.	EM3582T-G										
SPEC	05G784X571										
HP	1										
VOLTS	230/460										
AMPS	3/1.5										
RPM	1170										
FRAME	143T			HZ	60				PH	3	
SF	1.15		CODE	J	DES	B		CLASS		F	
NEMA NOM. EFF	82.5		PF	67							
RATING	40C AMB-CONT										
CC											
ENCL	TEFC		SER								
DE	6205			ODE							
VPWM INVERTER READY		SFA 3.7/1.85									
CT6-60H(10:1)VT3-60H(20:1											
50HZ 1HP 190/380V 3.8/1.9A											SF1.0

AC Induction Motor Performance Data

Record # 75456

Typical performance - not guaranteed values

Winding: 05WGX091-R002			Type: 0524M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque		4.53 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		3.4/1.7	Breakdown Torque		14.6 LB-FT	
R.P.M.		1155	Pull-up Torque		11.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	12.1 LB-FT	
NEMA Design Code	B	KVA Code	K	Starting Current	10.2 A	
Service Factor (S.F.)		1.15	No-load Current		1.16 A	
NEMA Nom. Eff.	82.5	Power Factor	65	Line-line Res. @ 25°C	16 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		33°C	
S.F. Amps			Temp. Rise @ S.F. Load		39°C	
			Locked-rotor Power Factor		42.2	
			Rotor inertia		0.143 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	44	56	65	71	74	69
Efficiency	71.5	80.7	83.3	83.5	82.4	80.5	82.8
Speed	1191	1181	1170	1158	1144	1128	1150
Line amperes	1.19	1.31	1.49	1.72	2	2.34	1.89

ABB Motors and Mechanical Inc.

WINDING # 05WGX091

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1155 RPM 460 V 0524M

TORQUES (LB-FT): PO=14.6 PU=11.2 LR=12.1 LRA=10.2





