

ABB BALDOR RELIANCE III

Customer information packet

ZDM3582T

1HP, 1170RPM, 3PH, 60HZ, 143TC, 0526M, TEBC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEBC
Frame	143TC
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 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	BLOWER
Current @ Voltage	3.000 A @ 230.0 V 1.500 A @ 460.0 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	ENCODER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	H

Part Detail

Revision	B
Type	AC
Mech. spec.	05E535
Base	
Status	PRD/A
Elec. spec.	05WGX571
Layout	05LYE535
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-09-2022

Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.02 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	Shaft Slinger
Speed	1170 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4028L									
CAT.NO.	ZDM3582T								
SPEC.	05E535X571G2								
FRAME	143TC			H.P.	1 TE				
VOLTS	230/460								
MAG. CUR.	2/1			F.L. AMPS				3/1.5	
R.P.M.	1170			R.P.M. MAX		1800			
HZ.	60		PH.	3	CLASS			H	
SER.F.	1.00		DES.	B	SL HZ			1.5	
NEMA NOM. EFF.	82.5		WK2	0.189					
BLWR V	115	PH	1	HZ	60	AMPS		.5	
RATING	40C AMB-CONT								
DE	6205	ODE	6203						
CC	010A	SN							
	1000:1 CT/VT								

AC Induction Motor Performance Data

Record # 87614

Typical performance - not guaranteed values

Winding: 05WGX571-R005			Type: 0526M		Enclosure: TEBC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque			4.479 LB-FT
Volts		230/460	Start Configuration			direct on line
Full Load Amps		3.4/1.7	Breakdown Torque			11.9 LB-FT
R.P.M.		1155	Pull-up Torque			7.06 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		8.62 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current		9.06 A
Service Factor (S.F.)			1	No-load Current		1.02 A
NEMA Nom. Eff.	82.5	Power Factor	67	Line-line Res. @ 25°C		20.372 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C
				Locked-rotor Power Factor		48.3
				Rotor inertia		0.189 lb-ft ²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	29	47	1	1	1	1
Efficiency	73.5	81.9	83.5	83.1	81.6	79.1
Speed	1192.5	1185.4	1177.6	1168.7	1159	1147
Line amperes	1.07	1.21	1.41	1.67	1.98	2.35

ABB Motors and Mechanical Inc.

WINDING # 05WGX571

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1155 RPM 460 V 0526M

TORQUES (LB-FT): PO=11.9 PU=7.06 LR=8.62 LRA=9.06





