

ABB BALDOR RELIANCE III

Customer information packet

ZDVSNM3584T

1.5HP, 1770RPM, 3PH, 60HZ, 143TC, 0530M, TENV

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	145TC
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	None
Current @ Voltage	4.600 A @ 230.0 V 2.300 A @ 460.0 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	ENCODER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	H

Part Detail

Revision	C
Type	AC
Mech. spec.	05E532
Base	
Status	PRD/A
Elec. spec.	05WGX543
Layout	05LYE532
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0530M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.65 IN
Power Factor	72
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
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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

NP3943L									
CAT.NO.	ZDVSNM3584T								
SPEC.	05E532X543G1								
FRAME	145TC			H.P.		1.5 TE			
VOLTS	230/460								
MAG. CUR.	2.58/1.29				F.L. AMPS			4.6/2.3	
R.P.M.	1770		R.P.M. MAX				4500		
HZ.	60		PH.		3		CLASS		H
SER.F.	1.00			SL HZ		1			
NEMA NOM. EFF.	86.5		WK2		0.217				
RATING	40C AMB-CONT								
DE	6205		ODE		6203				
CC	010A		SN						
	1000:1 CT/VT								

AC Induction Motor Performance Data

Record # 82095

Typical performance - not guaranteed values

Winding: 05WGX543-R002			Type: 0530M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		4.48 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		4.2/2.1	Breakdown Torque		21.02 LB-FT		
R.P.M.		1770	Pull-up Torque		12.29 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		14.9 LB-FT	
NEMA Design Code		B	KVA Code	M	Starting Current		21.32 A
Service Factor (S.F.)		1	No-load Current		1.29 A		
NEMA Nom. Eff.		86.5	Power Factor	76	Line-line Res. @ 25°C		10.1 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		71°C
					Locked-rotor Power Factor		55.5
					Rotor inertia		0.217 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	33	54	68	76	81	84
Efficiency	79.1	86.3	88.1	88.3	87.6	86.6
Speed	1790	1783	1776	1769	1761	1752
Line amperes	1.35	1.52	1.78	2.11	2.47	2.89

ABB Motors and Mechanical Inc.

WINDING # 05WGX543

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1770 RPM 460 V 0530M

TORQUES (LB-FT): PO=21.02 PU=12.29 LR=14.9 LRA=21.32





