

ABB BALDOR RELIANCE III

Customer information packet

ZDVSNCP3587T

2HP, 1755RPM, 3PH, 60HZ, 143TC, 0534M, TENV, F1

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	2.000 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 CSA EEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO) 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	5.400 A @ 230.0 V 2.700 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

Part Detail

Revision	C
Type	AC
Mech. spec.	05F205
Base	
Status	PRD/A
Elec. spec.	05WGX544
Layout	05LYF205
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	2.7 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0534M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.61 IN
Power Factor	79
Product Family	Chemical Processing (Not DC)
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	No Slinger
Speed	1755 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

NP4357L									
CAT NO	ZDVSNCP3587T								
SPEC.	05F205X544G1								
FRAME	145TC			HP	2 TE				
VOLTS	230/460								
MAG CUR	3.08/1.54				FLA		5.4/2.7		
RPM	1755		RPM MAX			2700			
HZ	60	PH	3	CLASS		H			
SER.F.	1.00			SL HZ		1.5			
NEMA-NOM-EFF	86.5		WK2		0.245				
RATING	40C AMB-CONT								
DE BRG	6205	ODE BRG			6203				
CC	010A	SN							
	1000:1 CT/VT								

AC Induction Motor Performance Data

Record # 82063

Typical performance - not guaranteed values

Winding: 05WGX544-R003			Type: 0534M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		5.98 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		5.4/2.7	Breakdown Torque		25.3 LB-FT		
R.P.M.		1755	Pull-up Torque		14.8 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		17.9 LB-FT	
NEMA Design Code		B	KVA Code	M	Starting Current		25.8 A
Service Factor (S.F.)		1	No-load Current		1.54 A		
NEMA Nom. Eff.		86.5	Power Factor	79	Line-line Res. @ 25°C		8.23 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		56°C
					Locked-rotor Power Factor		54.6
					Rotor inertia		0.245 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	37	59	72	79	83	86
Efficiency	80	86.5	87.6	86.9	85.6	83.7
Speed	1788	1780	1770	1759	1748	1734
Line amperes	1.61	1.86	2.24	2.72	3.28	3.88

ABB Motors and Mechanical Inc.

WINDING # 05WGX544

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1755 RPM 460 V 0534M

TORQUES (LB-FT): PO=25.3 PU=14.8 LR=17.9 LRA=25.8





