



Customer information packet

VECP83587T-4

2HP, 1755RPM, 3PH, 60HZ, 145TC, 0526M, TEFC, W6

Class - CL I GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.5
Current @ Voltage	2.800 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T4

Part detail

Revision	D
Type	AC
Mech. spec.	05F161
Base	
Status	PRD/A
Elec. spec.	05WGX549
Layout	05LYF161
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	04
Leads	3#18 Y
Proprietary	False
Created date	03-11-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	W6
Number of Poles	4
Overall Length	14.56 IN
Power Factor	74
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
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	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4328											
CAT.NO.	VECP83587T-4										
SPEC.	05F161X549G1										
HP	2 TE				IP	56					
VOLTS	460										
AMPS	2.8										
R.P.M.	1755										
FRAME	145TC		HZ		60		PH	3			
SER.F.	1.15	CODE	L	DES.	B	CLASS		F			
RATING	40C AMB-CONT										
SN											
DE	6205		ODE		6205						
NEMA NOM. EFF.	86.5		P.F.		74						
GUAR. MIN. EFF.	84		CC		010A						
T. CODE	T4		TEMP=		135						

NP3186

SPEC.	05F161X549G1				
ABMA DE BRG	25BC02X30X				
ABMA ODE BRG	25BC02X30X				
GREASE	POLYREX EM				
MOTOR WEIGHT	65	ROTOR BARS	27	STATOR BARS	36
MAX. R.P.M.	2700	MAX. KVAR	0.64		
	SFA 3.2				
INV.TYPE	PWM				
T=	135				
CHP	60	TO	90		
CT	1.5	TO	60		
VT	0-	TO	60		
HTR-VOLTS		HTR-AMPS			
HTR-WATTS		MAX. SPACE HEATER TEMP.			

AC Induction Motor Performance Data

Record # 81971

Typical performance - not guaranteed values

Winding: 05WGX549-R001			Type: 0526M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		2		Full Load Torque		5.98 LB-FT
Volts		460		Start Configuration		direct on line
Full Load Amps		2.8		Breakdown Torque		23.5 LB-FT
R.P.M.		1755		Pull-up Torque		11.5 LB-FT
Hz		60		Phase		3
NEMA Design Code		B		KVA Code		L
Service Factor (S.F.)		1.15		Starting Current		22.7 A
NEMA Nom. Eff.		86.5		Power Factor		74
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load
S.F. Amps		3.2		Temp. Rise @ S.F. Load		48°C
				Locked-rotor Power Factor		58.1
				Rotor inertia		0.188 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	55	69	76	81	84	79
Efficiency	77.7	85.3	86.9	86.8	85.8	84.2	86.2
Speed	1790	1781	1772	1762	1751	1739	1755
Line amperes	1.75	1.99	2.37	2.83	3.36	3.96	3.15

ABB Motors and Mechanical Inc.

WINDING # 05WGX549

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1755 RPM 460 V 0526M

TORQUES (LB-FT): PO=23.5 PU=11.5 LR=15.6 LRA=22.7





