

ABB BALDOR RELIANCE III

Customer information packet

GNEM3665T

42M 4P TEFC HOR 184T SUPER E, IE3

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ 5.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 460.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	WEEE CE UKCA NEMA PREMIUM IE3 CURUSEEV
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	7.600 A @ 380.0 V 6.500 A @ 460.0 V 15.200 A @ 190.0 V

Part Detail

Revision	K
Type	AC
Mech. spec.	06C101
Base	
Status	PRD/A
Elec. spec.	06WGW567
Layout	06LYC101
Eff. date	08-05-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	12-14-2018

	13.600 A @ 208.0 V
	13.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.24 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1450 rpm 1750 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

NP4304L									
CAT.NO.	GNEM3665T								
SPEC.	06C101W567G1								
HP	5/3.7KW						PH	3	
VOLTS	208-230/460//190/380								
AMPS	13.6-13/6.5//15.2/7.6								
R.P.M. (1/MIN)	1750//1450						WT.	52KG	KG
FRAME	184T	HZ		60//50		I.P.		44	
SER.F.	1.15	CODE	K	DES.	A	CLASS	F		
NOM.EFF.	90.2//88.6		% (100%)						
P.F.	80	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6206		ODE	6205					
ENCL	TEFC	SN							
IE3-50HZ 90.0 (75%),89.2 (50%)									
IE3-60HZ 90.9 (75%),90.6 (50%)									

AC Induction Motor Performance Data

Record # 62293

Typical performance - not guaranteed values

Winding: 06WGW567-R084		Type: 0642M	Enclosure: TEFC	
Nameplate Data		460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	5	Full Load Torque	14.89 LB-FT	
Volts	208-230/460//190/380	Start Configuration	direct on line	
Full Load Amps	13.6-13/6.5//15.2/7.6	Breakdown Torque	58.3 LB-FT	
R.P.M.	1750//1450	Pull-up Torque	25.18 LB-FT	
Hz	60//50 Phase	Locked-rotor Torque	41.3 LB-FT	
NEMA Design Code	B	Starting Current	54.8 A	
KVA Code	K	No-load Current	3.49 A	
Service Factor (S.F.)	1.15	Line-line Res. @ 25°C	2.34 Ω	
NEMA Nom. Eff.	90.2	Temp. Rise @ Rated Load	46°C	
Power Factor	80	Temp. Rise @ S.F. Load	56°C	
Rating - Duty	40C AMB-CONT	Locked-rotor Power Factor	53	
S.F. Amps		Rotor inertia	0.39 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	59	72	79	84	85	82
Efficiency	84.8	89.7	90.8	90.5	89.7	88.5	90
Speed	1790	1780	1770	1760	1748	1734	1753
Line amperes	3.78	4.46	5.43	6.52	7.81	9.27	7.29

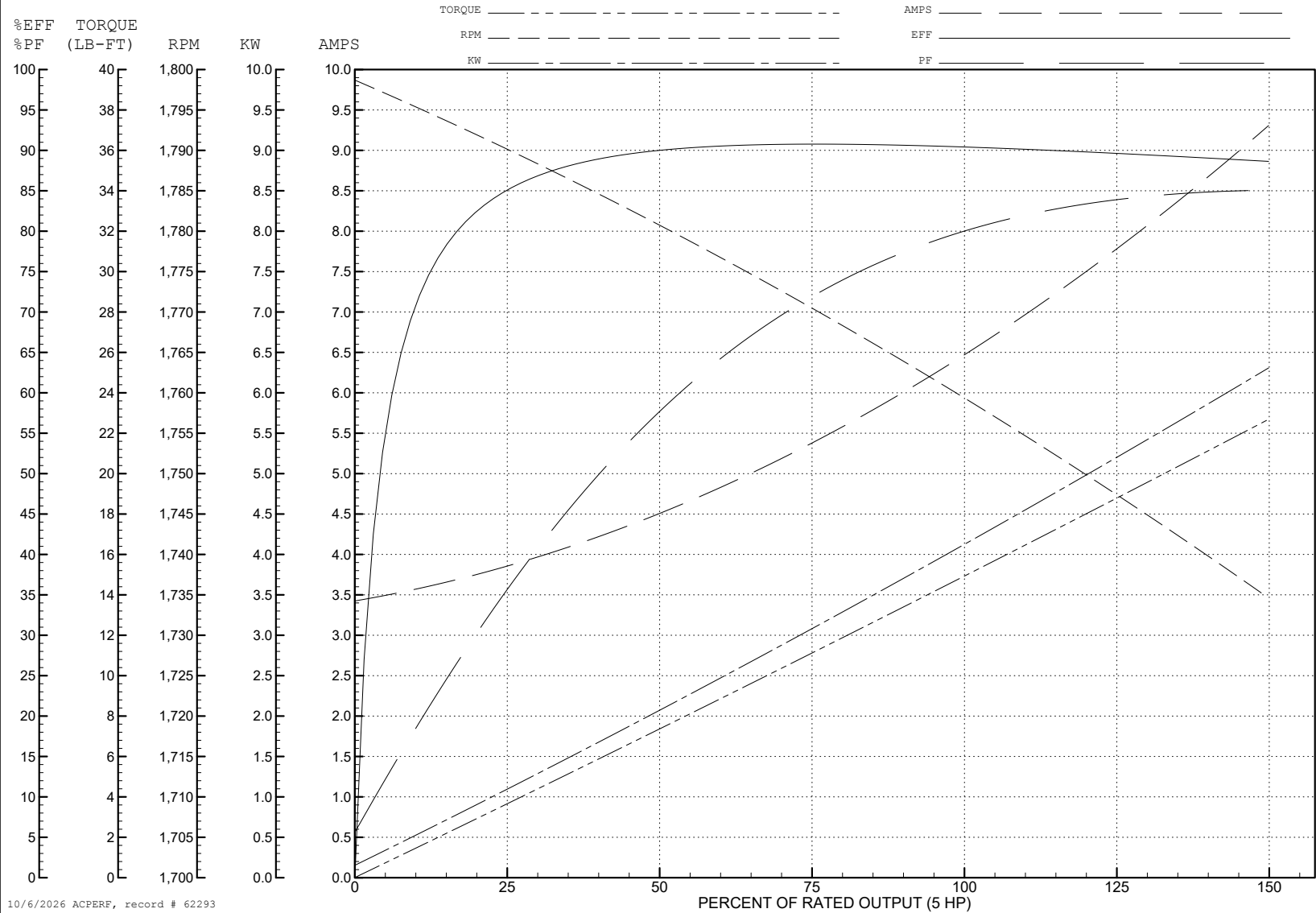
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WINDING # 06WGW567

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1760 RPM 460 V 0642M

TORQUES (LB-FT): PO=58.3 PU=25.18 LR=41.3 LRA=54.8



AC Induction Motor Performance Data

Record # 82292

Typical performance - not guaranteed values

Winding: 05WGX571-R003			Type: 0526M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		1	Full Load Torque		4.479 LB-FT			
Volts		208-230/460	Start Configuration		direct on line			
Full Load Amps		3.5-3.4/1.7	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.)		1.15	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	
S.F. Amps			Temp. Rise @ S.F. Load		56°C			
			Locked-rotor Power Factor		48.3			

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	47	1	1	1	1	1
Efficiency	73.5	81.9	83.5	83.1	81.6	79.1	82.2
Speed	1192.5	1185.4	1177.6	1168.7	1159	1147	1163
Line amperes	1.07	1.21	1.41	1.67	1.98	2.35	1.86

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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

