ABB BALDOR RELIANCE

Customer information packet

VEM3665T

5HP, 1755RPM, 3PH, 60HZ, 184TC, 0642M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184TC
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	5.000 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	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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
Current @ Voltage	14.000 A @ 208.0 V
	6.600 A @ 460.0 V
	13.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	W
Type	AC
Mech. spec.	06H016
Base	
Status	PRD/A
Elec. spec.	06WGX182
Layout	06LYH016
Eff. date	08-06-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	08-04-2010

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
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	15.98 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	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

NP3441LUA										
CAT.NO.	VEM3665T									
SPEC	06H016X182G1									
HP	5									
VOLTS	230/460									
AMPS	13.2/6.6									
RPM	1750									
FRAME	184TC	**HZ**	60			**PH**	3			
SF	1.15	**CODE**	J	**DES**	B	**CLASS**	F			
NEMA NOM. EFF	89.5	**PF**	80							
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC	**SER**								
DE	6206	**ODE**	6205							
VPWM INVERTER READY	SFA 14.6/7.3									
CT6-60H(10:1)VT3-60H(20:1										
	50Hz 5HP 190/380V 15.8/7.9A									SF1.0

AC Induction Motor Performance Data
Record # 34381
Typical performance - not guaranteed values

Winding: 06WGX182-R004	**Type:** 0642M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	15 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			13.2/6	**Breakdown Torque**	53.9 LB-FT
R.P.M.			1750	**Pull-up Torque**	22.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	31.8 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	46.6 A
Service Factor (S.F.)			1.15	**No-load Current**	3.02 A
NEMA Nom. Eff.	89.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	2.63 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	53°C
S.F. Amps				**Temp. Rise @ S.F. Load**	65°C
				Locked-rotor Power Factor	40.5
				Rotor inertia	0.391 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	63	75	81	84	85	81
Efficiency	85.2	89.8	90.4	89.8	88.4	86.9	88.7
Speed	1789	1777	1765	1752	1737	1721	1739
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47	7.52

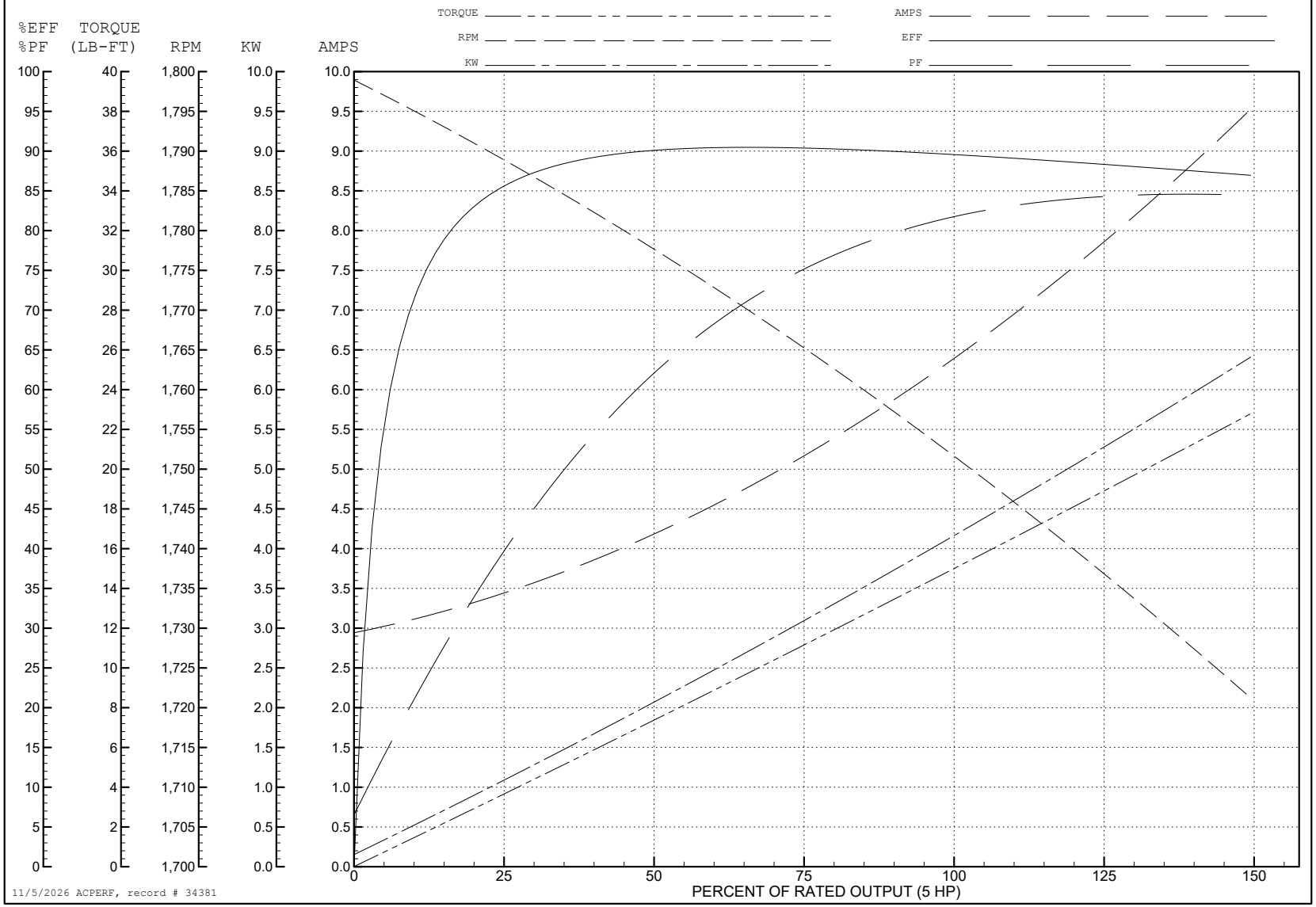
ABB Motors and Mechanical Inc.

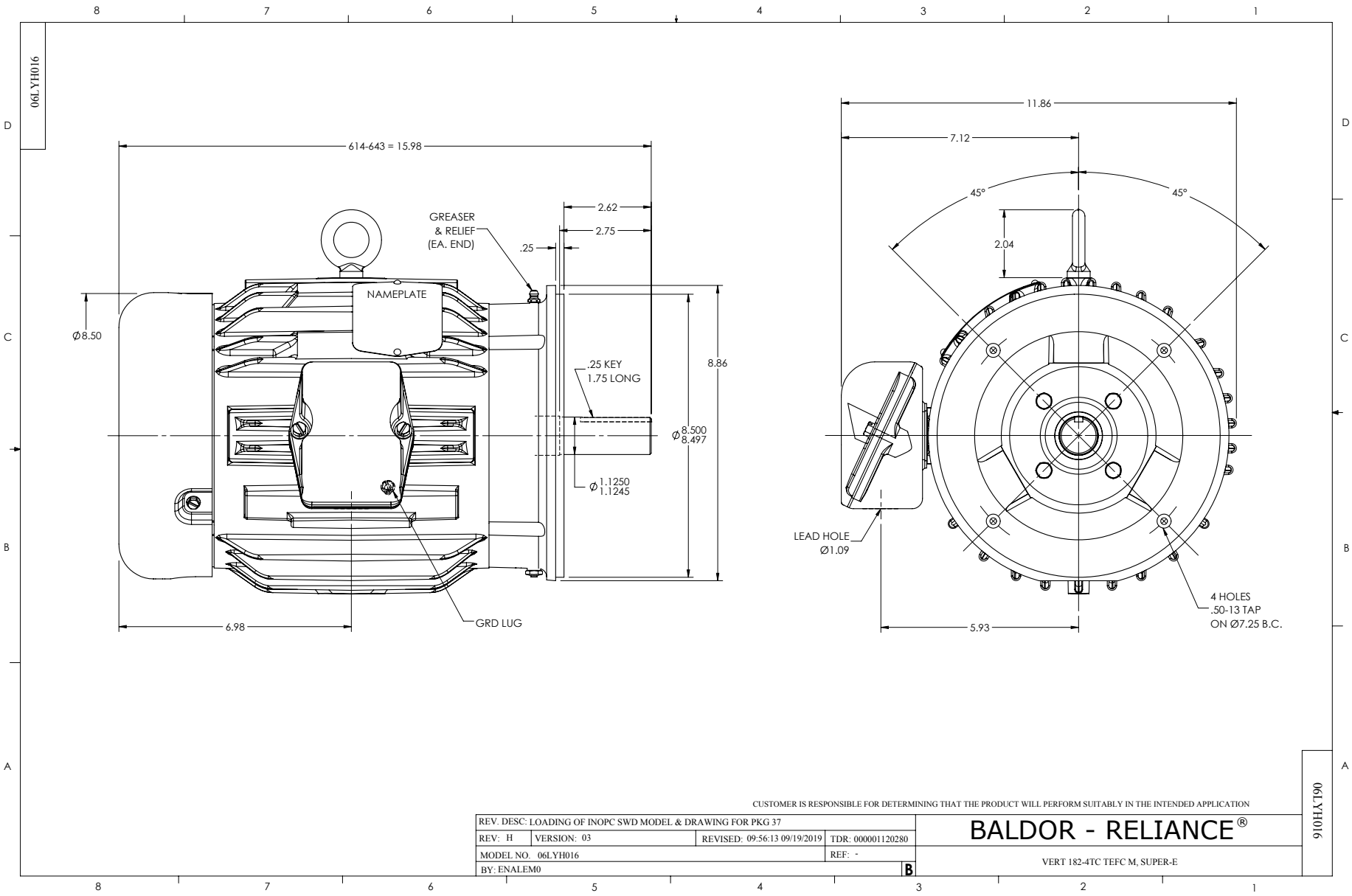
WINDING # 06WGX182

5 HP 3 PH 60 HZ 1750 RPM 460 V 0642M

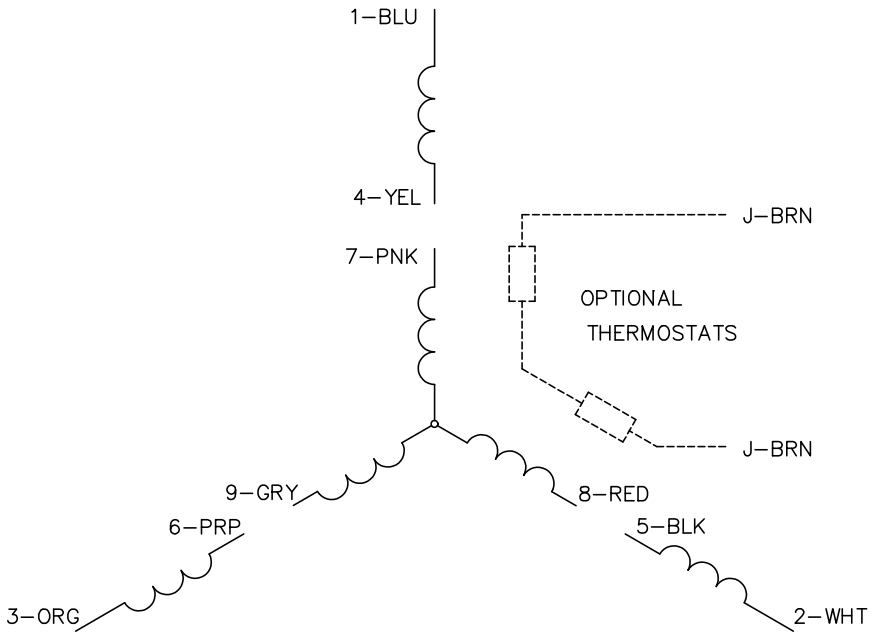
Typical performance - not guaranteed values.

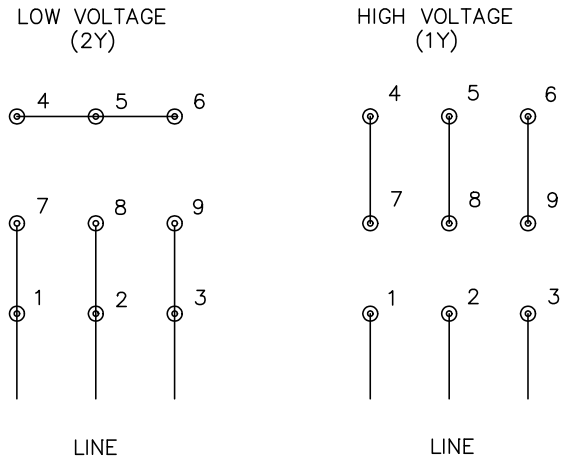
TORQUES(LB-FT): PO=53.9 PU=22.4 LR=31.8 LRA=46.6




06LYH016
614-643 = 15.98
2.62
2.75
.25
GREASER
& RELIEF
(EA. END)
NAMEPLATE
Ø8.50
.25 KEY
1.75 LONG
8.86
Ø 8.500
8.497
Ø 1.1250
1.1245
6.98
GRD LUG
11.86
7.12
45°
45°
2.04
LEAD HOLE
Ø1.09
5.93
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF INOPC SWD MODEL & DRAWING FOR PKG 37
REV: H
VERSION: 03
REVISED: 09:56:13 09/19/2019
TDR: 000001120280
MODEL NO. 06LYH016
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 182-4TC TEFC M, SUPER-E
06LYH016

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS