ABB BALDOR RELIANCE

Customer information packet

ECP3663T

5HP, 3505RPM, 3PH, 60HZ, 184T, TEFC, FOOT,
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	11.400 A @ 230.0 V
	5.700 A @ 460.0 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

Part Detail

Revision	U
Type	AC
Mech. spec.	06H003
Base	
Status	PRD/A
Elec. spec.	06WGW730
Layout	06LYH003
Eff. date	03-24-2023
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	05-13-2010

Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.7 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0632M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.93 IN
Power Factor	90
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	Shaft Slinger
Speed	3490 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

NP3260			
SPEC.	06H003W730G1		
D.E. BRG.	30BC02XP30X		
O.D.E. BRG.	25BC02XP30X		
GREASE	POLYREX EM		
RPM MAX	5400	**MAX. KVAR**	N/A
BLANK			
INV.TYPE	PWM		
T=	160		
C HP FR	60	**C HP TO**	90
CT HZ FROM	6	**CT HZ TO**	60
VT HZ FROM	3	**VT HZ TO**	60
HTR-VOLTS		**HTR-AMPS**	
HTR-WATTS		**MAX. SPACE HEATER TEMP.**	

NP3257								
CAT.NO.	ECP3663T							
SPEC.	06H003W730G1							
HP	5 TE							
VOLTS	230/460							
AMP	11.4/5.7							
RPM	3490							
FRAME	184T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	M	**DES**	A	**CL**	F	
RATING	40C AMB-CONT							
SN								
DE	6206	**ODE**	6205					
NEMA-NOM-EFF	90.2	**PF**	90					
G.MIN.EFF	88.5	**CC**	010A					
T. CODE	T3C	**T=**	160					

Parts List

Part number	Description	Quantity
SA198464	SA 06H003W730G1	1.000 ea
RA185831	RA 06H003W730G1	1.000 ea
34FN3002B02	EXTERNAL FAN, PLASTIC, .905/.907 HUB W/	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB1000A02G	CONDUIT BOX, MACH GRAY	1.000 ea
RM1016	LEAD SEPARATOR GASKET - 305/306 C.P.MOTO	1.000 ea
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
10XN2520G06	1/4 20X3/8 HX HD CAP, GREEN	2.000 ea
36EP1101A65G	FR EP GREASER,.25-20 FAN CVR.HOLES,TEFC.	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36PE1100A29G	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HA3101A53	THRUBOLT 1/4-20 X 10.50	4.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
06FH1004A01G	FAN HOUSING MACH, W/GRAY EPOXY	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	3.000 ea
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 ea
06CB1502G	LIPPED CONDUIT BOX LID CAST, GRAY EPOXY	1.000 ea
06GS1003	GASKET, KOBX LID, 1/8" THICK BLACK NEOPR	1.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea

HA1005A03SP	SLINGER, OD 1.750, ID .938, 205 BRG	1.000 ea
HW4600B36SP	V-RING SLINGER 1.188 X 1.380 X .24 VITON	1.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 ea
NP3260	SS CP SUPER-E AUX DATA INFORMATION	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MG1025N19	WILKOFAST, 778.50, RELIANCE BLUE-GREEN 8	0.028 ga
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
NP3257	SS CP SUPER-E DIV-2 UL CSA-C US EEV PREM	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 ea

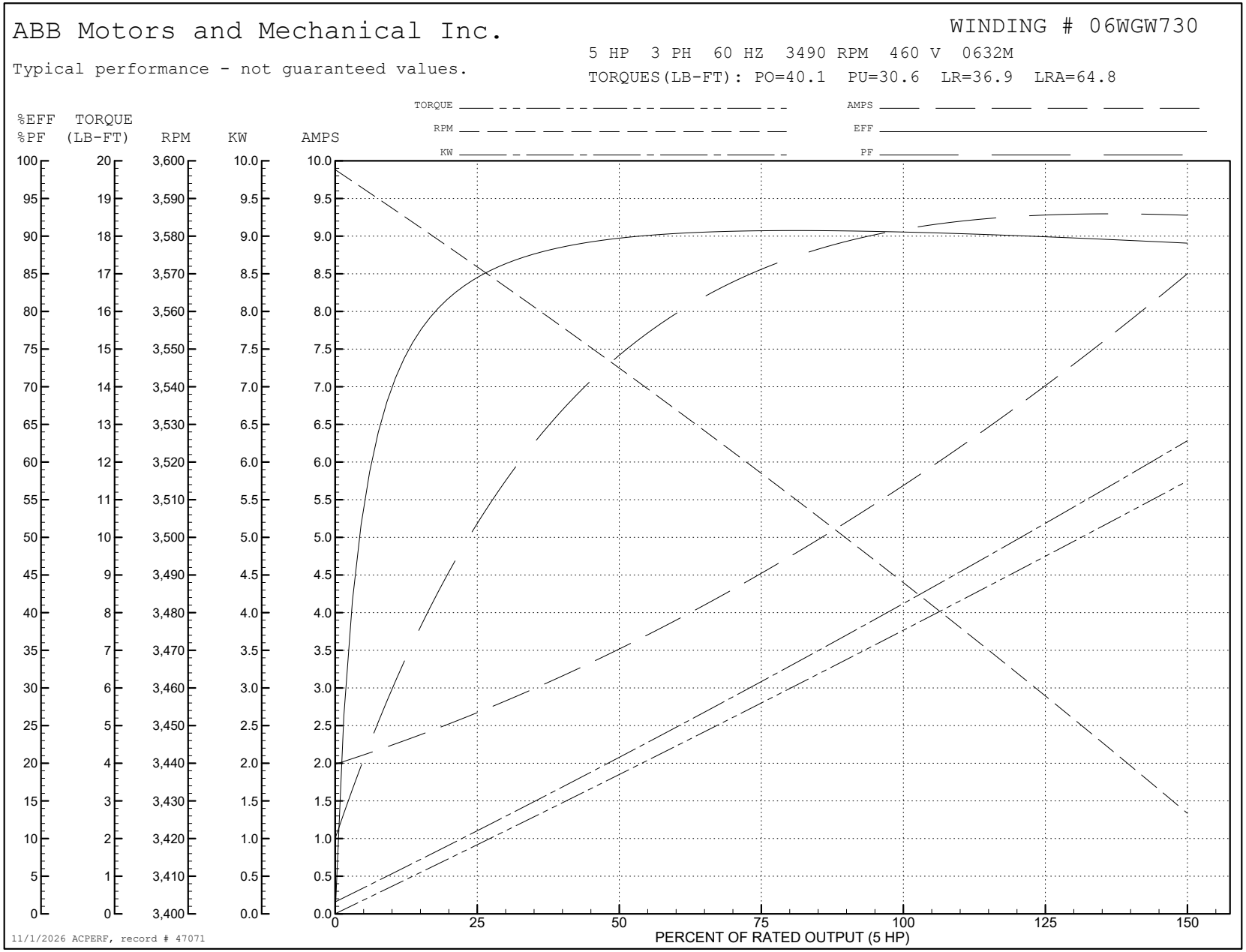
AC Induction Motor Performance Data
Record # 47071
Typical performance - not guaranteed values

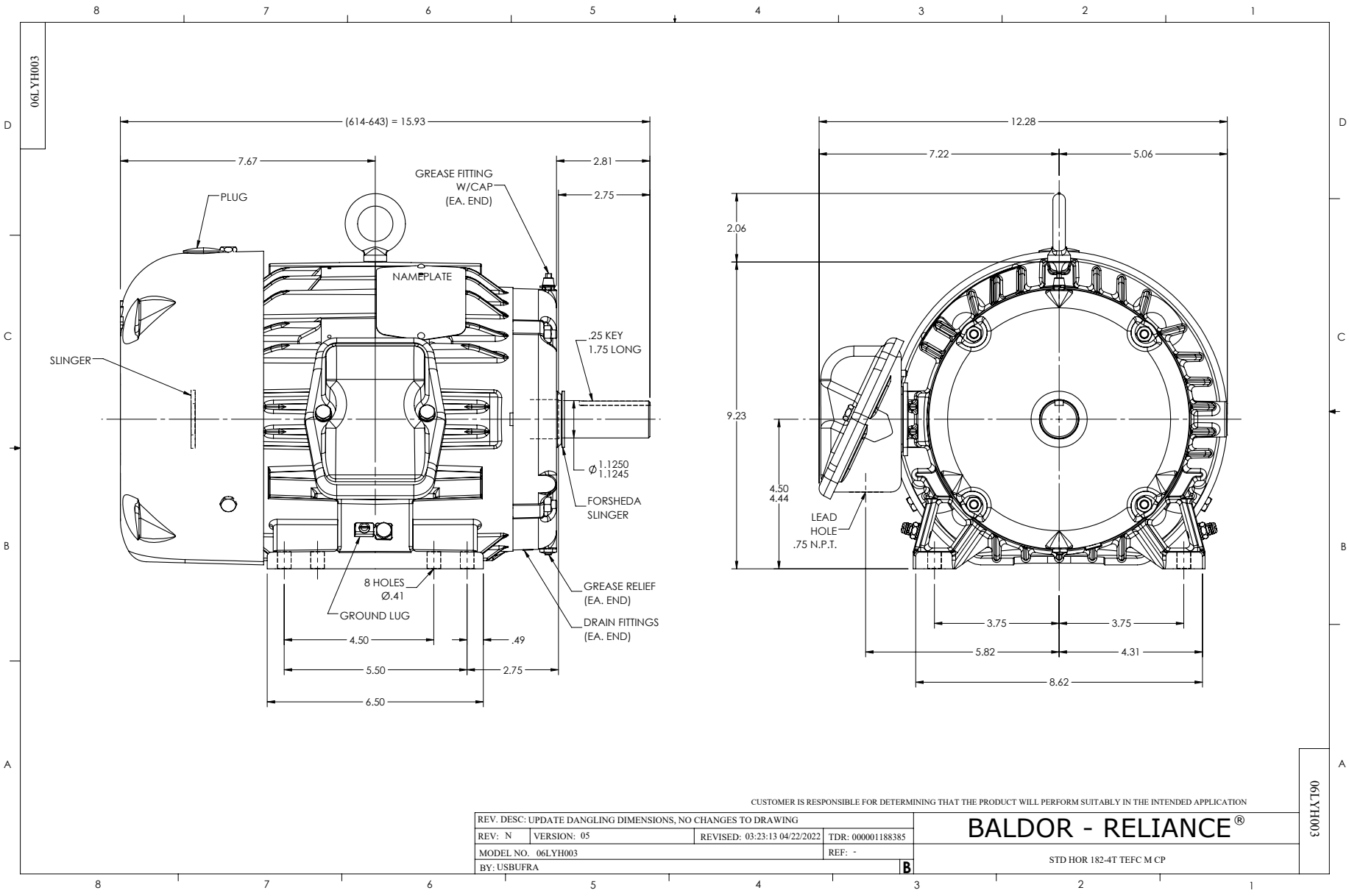
Winding: 06WGW730-R030	**Type:** 0632M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	7.54 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			11.4/5.7	**Breakdown Torque**	40.1 LB-FT
R.P.M.			3490	**Pull-up Torque**	30.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	36.9 LB-FT
NEMA Design Code	A	**KVA Code**	M	**Starting Current**	64.8 A
Service Factor (S.F.)			1.15	**No-load Current**	2.08 A
NEMA Nom. Eff.	90.2	**Power Factor**	90	**Line-line Res. @ 25ºC**	1.93 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	51°C
S.F. Amps				**Temp. Rise @ S.F. Load**	62°C

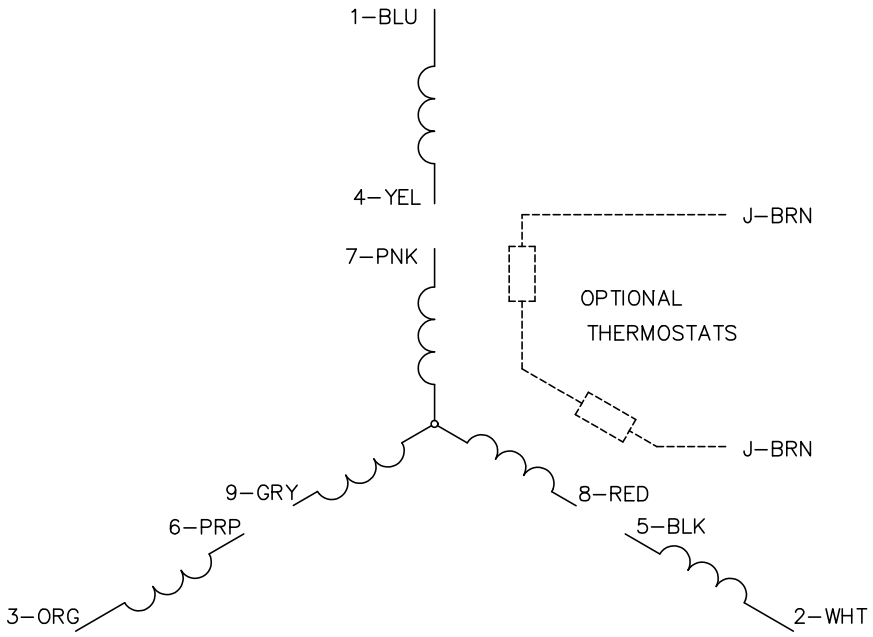
Load Characteristics 460 V, 60 Hz, 5 HP

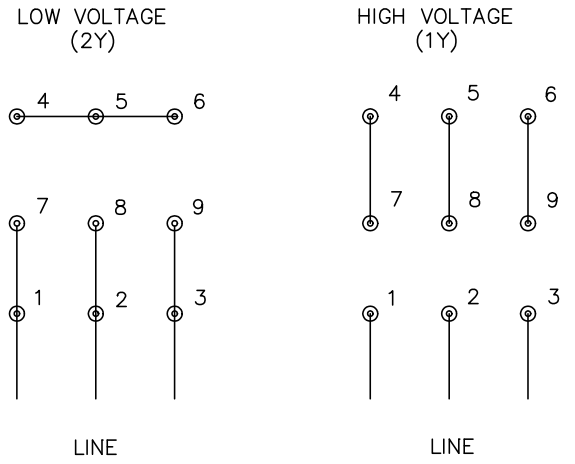
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	76	85	90	93	93	92
Efficiency	84.5	89.4	90.8	90.6	90	89	90.2
Speed	3570	3544	3517	3489	3458	3426	3470
Line amperes	2.54	3.47	4.6	5.76	7.03	8.46	6.52


ABB Motors and Mechanical Inc.
WINDING # 06WGW730
5 HP 3 PH 60 HZ 3490 RPM 460 V 0632M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=40.1 PU=30.6 LR=36.9 LRA=64.8
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/1/2026 ACPERF, record # 47071


06LYH003
(614-643) = 15.93
7.67
2.81
2.75
GREASE FITTING W/CAP (EA. END)
PLUG
NAMEPLATE
SLINGER
.25 KEY 1.75 LONG
Ø 1.1250 1.1245
FORSHEDA SLINGER
8 HOLES Ø.41
GROUND LUG
GREASE RELIEF (EA. END)
DRAIN FITTINGS (EA. END)
4.50
.49
5.50
2.75
6.50
12.28
7.22
5.06
2.06
9.23
4.50 4.44
LEAD HOLE .75 N.P.T.
3.75
3.75
5.82
4.31
8.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE DANGLING DIMENSIONS, NO CHANGES TO DRAWING
REV: N
VERSION: 05
REVISED: 03:23:13 04/22/2022
TDR: 000001188385
MODEL NO. 06LYH003
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HOR 182-4T TEFC M CP
06LYH003

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