ABB BALDOR RELIANCE

Customer information packet

CECP83663T-4

5HP, 3440RPM, 3PH, 60HZ, 184TC, 0643M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	184TC
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	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
	CCSA US
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	5.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	W
Type	AC
Mech. spec.	06H770
Base	
Status	PRD/A
Elec. spec.	06WGX822
Layout	06LYH770
Eff. date	12-17-2025
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	10-03-2016

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	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.69 IN
Power Factor	94
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
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	Shaft Slinger
Speed	3440 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.	CECP83663T-4							
SPEC.	06H770X822G1							
HP	5 TE		**IP**	56				
VOLTS	460							
AMPS	5.7							
R.P.M.	3440							
FRAME	184TC	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	J	**DES.**	B	**CLASS**	F	
RATING	40C AMB-CONT							
SN								
DE	6206	**ODE**	6206					
NEMA NOM. EFF.	88.5	**P.F.**	94					
GUAR. MIN. EFF.	86.5	**CC**	010A					
T. CODE	T3C	**TEMP=**	160					

NP3186							
SPEC.	06H770X822G1						
ABMA DE BRG	30BC02XP30X						
ABMA ODE BRG	30BC02X30X						
GREASE	POLYREX EM						
MOTOR WEIGHT	136	**ROTOR BARS**	28	**STATOR BARS**	36		
MAX. R.P.M.	5400	**MAX. KVAR**	0.15				
INV.TYPE	PWM						
T=	160						
CHP	60	**TO**	90				
CT	6	**TO**	60				
VT	2.7	**TO**	60				
HTR-VOLTS	N/A	**HTR-AMPS**	N/A				
HTR-WATTS	N/A	**MAX. SPACE HEATER TEMP.**			N/A		

AC Induction Motor Performance Data
Record # 59642
Typical performance - not guaranteed values

Winding: 06WGX822-R001	**Type:** 0642M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	7.76 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			5.7	**Breakdown Torque**	33.5 LB-FT
R.P.M.			3440	**Pull-up Torque**	13.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	22.9 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	45.4 A
Service Factor (S.F.)			1.15	**No-load Current**	1.07 A
NEMA Nom. Eff.	88.5	**Power Factor**	94	**Line-line Res. @ 25ºC**	2.61 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	51°C
S.F. Amps				**Temp. Rise @ S.F. Load**	65°C
				Locked-rotor Power Factor	41.5
				Rotor inertia	0.188 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	78	90	93	94	93	97	93
Efficiency	90	92	90	89	86	84	87.4
Speed	3559	3523	3481	3439	3384	3327	3406
Line amperes	1.8	2.92	4.25	5.68	7.33	8.75	6.67

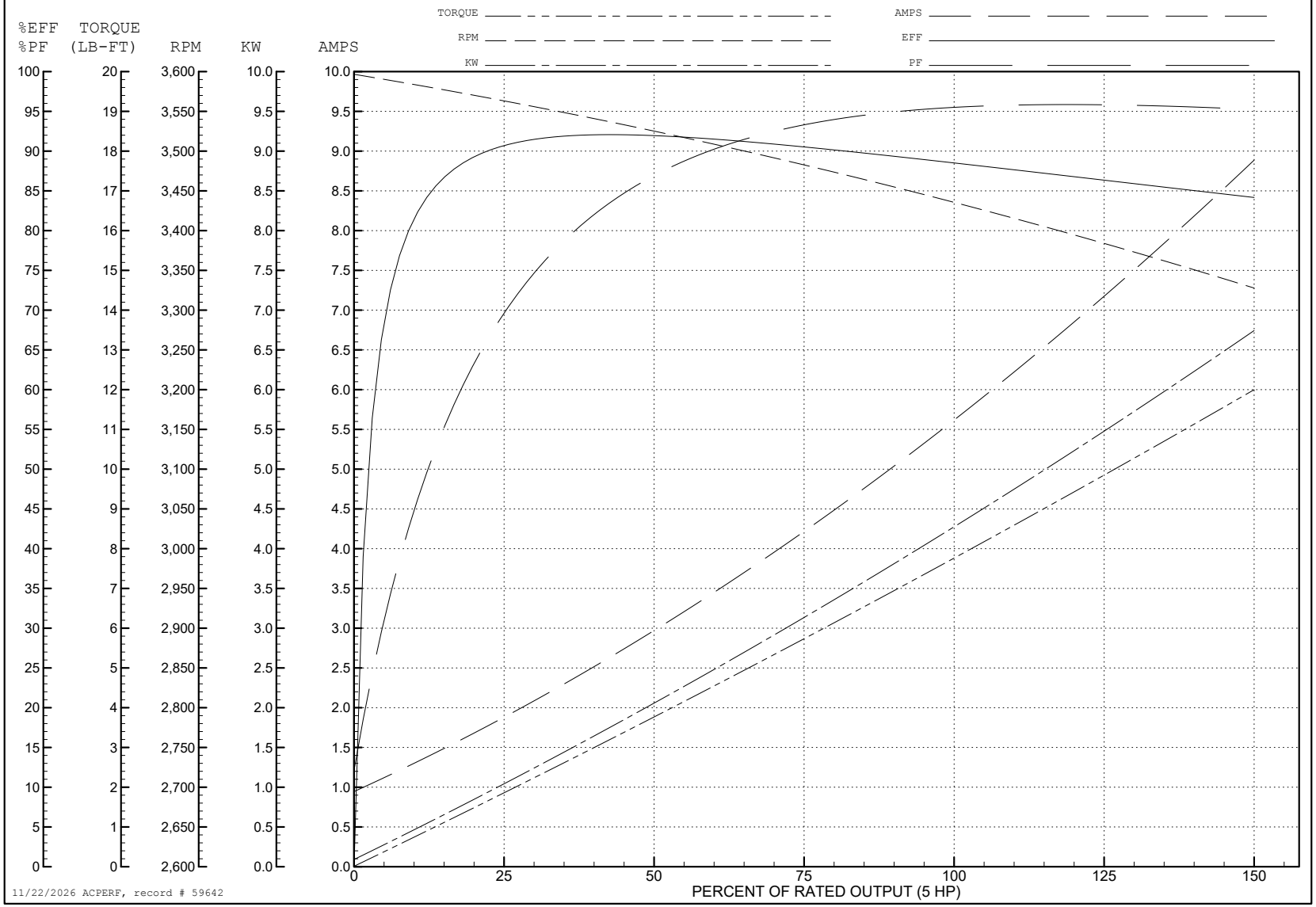
ABB Motors and Mechanical Inc.

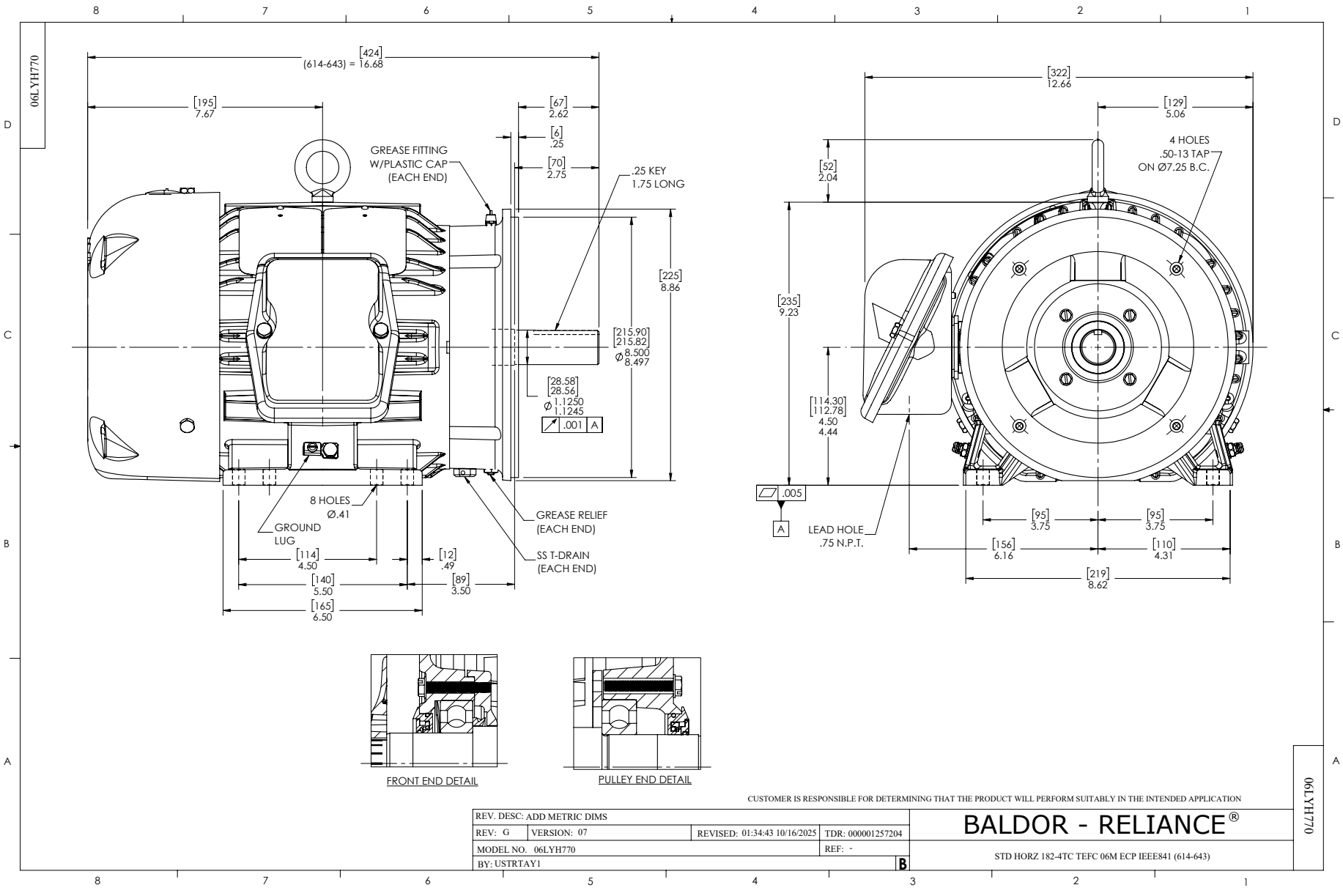
WINDING # 06WGX822

5 HP 3 PH 60 HZ 3440 RPM 460 V 0642M

Typical performance - not guaranteed values.

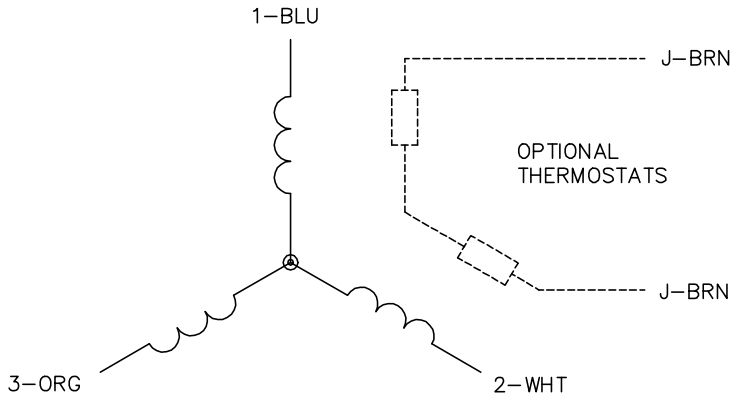
TORQUES(LB-FT): PO=33.5 PU=13.4 LR=22.9 LRA=45.4

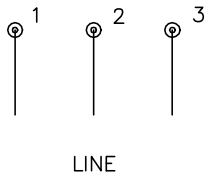



06LYH770
[424]
(614-643) = 16.68
[195]
7.67
[67]
2.62
[6]
.25
[70]
2.75
GREASE FITTING
W/PLASTIC CAP
(EACH END)
.25 KEY
1.75 LONG
[225]
8.86
[215.90]
[215.82]
Ø 8.500
8.497
[28.58]
[28.56]
Ø 1.1250
Ø 1.1245
.001 A
8 HOLES
Ø.41
GROUND
LUG
GREASE RELIEF
(EACH END)
SS T-DRAIN
(EACH END)
[114]
4.50
[12]
.49
[140]
5.50
[89]
3.50
[165]
6.50
[322]
12.66
[129]
5.06
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
[52]
2.04
[235]
9.23
[114.30]
[112.78]
4.50
4.44
.005
A
LEAD HOLE
.75 N.P.T.
[95]
3.75
[95]
3.75
[156]
6.16
[110]
4.31
[219]
8.62
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD METRIC DIMS
REV: G
VERSION: 07
REVISED: 01:34:43 10/16/2025
TDR: 000001257204
MODEL NO. 06LYH770
REF: -
BY: USTRTAY1
B
BALDOR - RELIANCE®
STD HORZ 182-4TC TEFC 06M ECP IEEE841 (614-643)
06LYH770

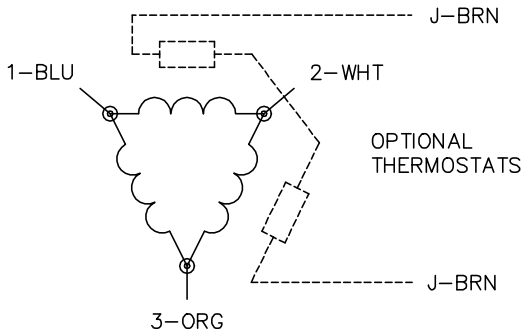
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1