ABB BALDOR RELIANCE

Customer information packet

CEM3774T-5

10HP, 1760RPM, 3PH, 60HZ, 215TC, 0748M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215TC
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM (OLD LOGO) CURUSEEV NEMA PREMIUM
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	9.800 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.8 a
Insulation Class	F

Part Detail

Revision	U
Type	AC
Mech. spec.	07H058
Base	
Status	PRD/A
Elec. spec.	07WGY729
Layout	07LYH058
Eff. date	08-10-2026
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	05-07-2010

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.20 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP3441L									
CAT.NO.	CEM3774T-5								
SPEC.	07H058Y729G1								
HP	10								
VOLTS	575								
AMP	9.8								
RPM	1760								
FRAME	215TC	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	H	**DES**	B	**CL**	F		
NEMA-NOM-EFF	91.7	**PF**	83						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	SFA 11.2								

AC Induction Motor Performance Data
Record # 89235
Typical performance - not guaranteed values

Winding: 07WGY729-R002	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			10
Volts			575
Full Load Amps			9.8
R.P.M.			1760
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	83
Rating - Duty			40C AMB-CONT
S.F. Amps			

575 V, 60 Hz: Single Voltage Motor	
Full Load Torque	29.77 LB-FT
Start Configuration	direct on line
Breakdown Torque	82.63 LB-FT
Pull-up Torque	41.23 LB-FT
Locked-rotor Torque	53.91 LB-FT
Starting Current	66.29 A
No-load Current	3.65 A
Line-line Res. @ 25ºC	1.68 Ω
Temp. Rise @ Rated Load	64°C
Temp. Rise @ S.F. Load	81°C
Locked-rotor Power Factor	35.3847
Rotor inertia	1.18 lb-ft²

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	49	70	79	83	85	84	84
Efficiency	90.1	91.9	92.6	92.1	90.9	89.1	91.4
Speed	1791	1782	1774	1764	1752	1738	1757
Line amperes	4.28	5.74	7.6	9.79	12.21	15.01	11.2

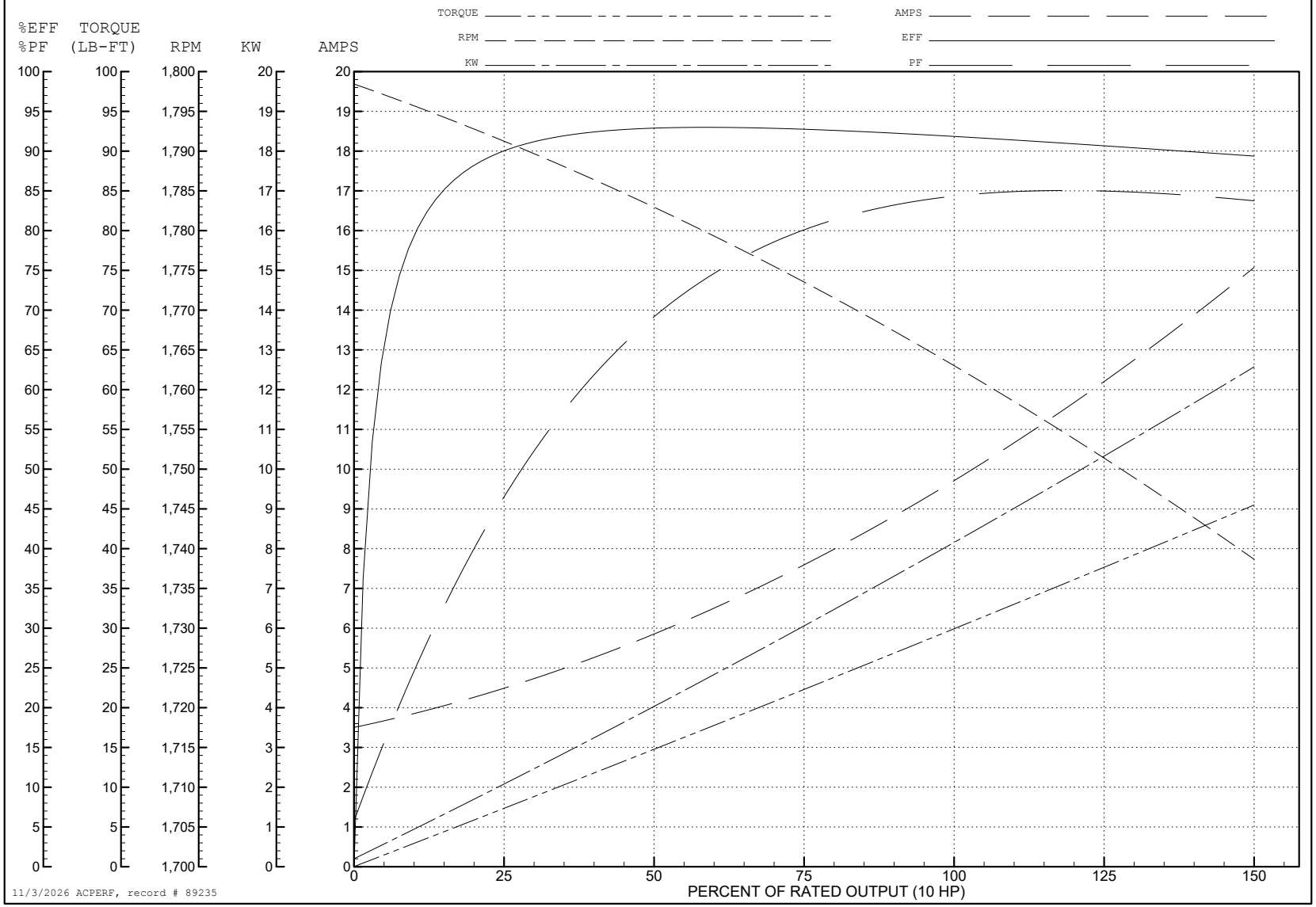
ABB Motors and Mechanical Inc.

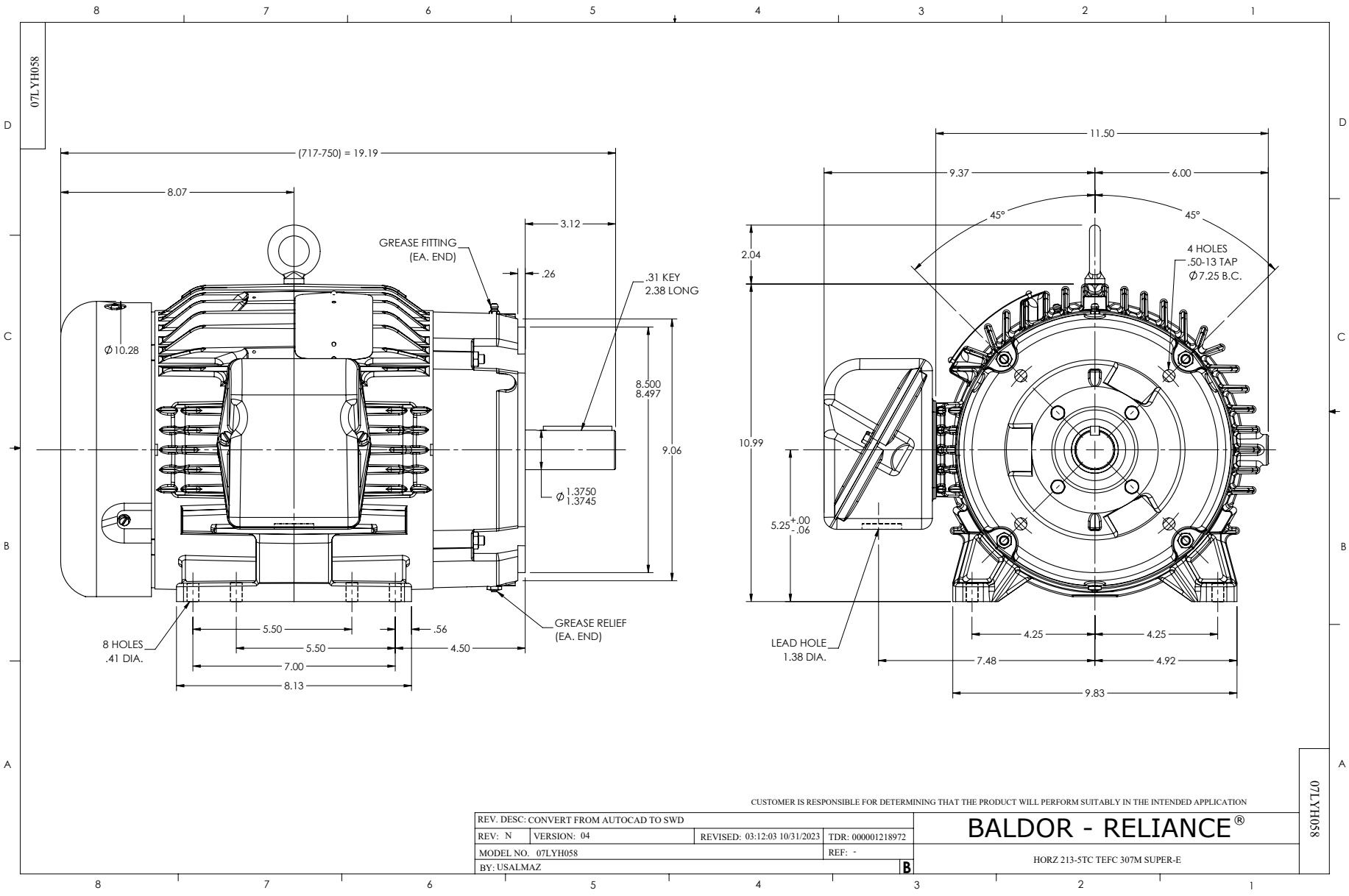
WINDING # 07WGY729

10 HP 3 PH 60 HZ 1760 RPM 575 V 0748M

Typical performance - not guaranteed values.

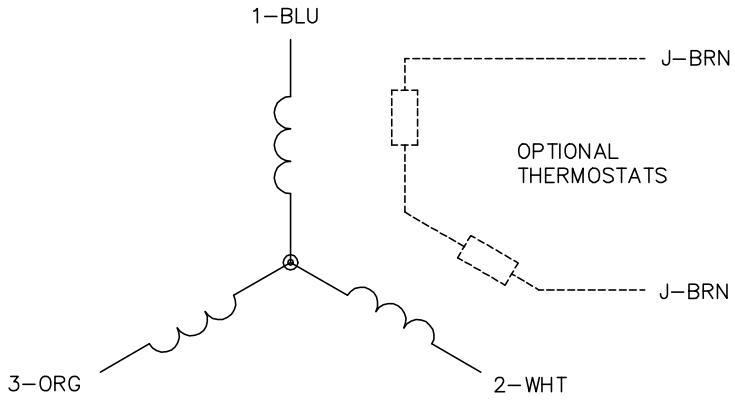
TORQUES(LB-FT): PO=82.63 PU=41.23 LR=53.91 LRA=66.29

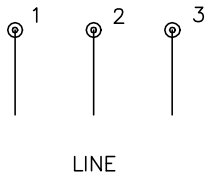



07LYH058
(717-750) = 19.19
8.07
3.12
GREASE FITTING
(EA. END)
.26
.31 KEY
2.38 LONG
Ø10.28
8.500
8.497
9.06
Ø1.3750
1.3745
5.50
.56
5.50
4.50
7.00
8.13
8 HOLES
.41 DIA.
GREASE RELIEF
(EA. END)
11.50
9.37
6.00
45°
45°
2.04
4 HOLES
.50-13 TAP
Ø7.25 B.C.
10.99
5.25 +.00 -.06
LEAD HOLE
1.38 DIA.
4.25
4.25
7.48
4.92
9.83
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT FROM AUTOCAD TO SWD
REV: N
VERSION: 04
REVISED: 03:12:03 10/31/2023
TDR: 000001218972
MODEL NO. 07LYH058
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ 213-5TC TEFC 307M SUPER-E
07LYH058

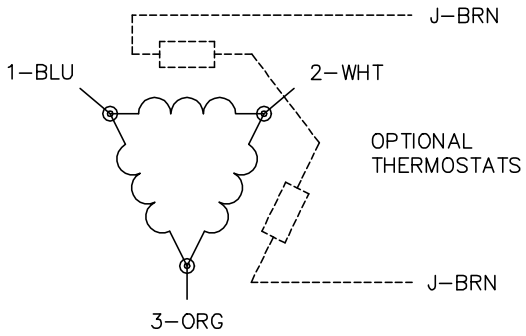
CD0006

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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1