

ABB BALDOR RELIANCE III

Customer information packet

ECP3775T-4

3HP, 865RPM, 3PH, 60HZ, 215T, 0744M, TEFC, F1, N

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	215T
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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	2.3
Current @ Voltage	5.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	Y
Type	AC
Mech. spec.	07K374
Base	
Status	PRD/A
Elec. spec.	07WGY830
Layout	07LYK374
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	08
Leads	3#14
Proprietary	False
Created date	01-04-2011

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1350 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0744M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	19.50 IN
Power Factor	62
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	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	865 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

NP3281									
CAT.NO.	ECP3775T-4								
SPEC.	07K374Y830G1								
HP	3 TE								
VOLTS	460								
AMP	5.2								
RPM	865								
FRAME	215T	HZ	60		PH	3			
SER.F.	1.15	CODE	H	DES	B	CL	F		
RATING	40C AMB-CONT								
SN									
DE	6307	ODE	6307						
NEMA-NOM-EFF	85.5	PF	62						
G.MIN.EFF	82.5	CC	010A						
T. CODE	T3C	T=	160						

NP3261			
SPEC.	07K374Y830G1		
D.E. BRG.	35BC03XP30X		
O.D.E. BRG.	35BC03XP30X		
GREASE	POLYREX EM		
RPM MAX	1350	MAX. KVAR	2.04
BLANK			
INV.TYPE	PWM		
T=	160		
C HP FR	60	C HP TO	90
CT HZ FROM	2.3	CT HZ TO	60
VT HZ FROM	0-	VT HZ TO	60
HTR-VOLTS		HTR-AMPS	
HTR-WATTS		MAX. SPACE HEATER TEMP.	

AC Induction Motor Performance Data

Record # 47142

Typical performance - not guaranteed values

Winding: 07WGY830-R010			Type: 0744M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		3	Full Load Torque		18.4 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		5.2	Breakdown Torque		49 LB-FT		
R.P.M.		865	Pull-up Torque		27.6 LB-FT		
Hz		60	Phase		3	Locked-rotor Torque	30.6 LB-FT
NEMA Design Code		B	KVA Code		H	Starting Current	25.6 A
Service Factor (S.F.)		1.15	No-load Current		3.21 A		
NEMA Nom. Eff.		85.5	Power Factor		62	Line-line Res. @ 25°C	3.49 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		45°C	
S.F. Amps				Temp. Rise @ S.F. Load		54°C	
				Rotor inertia		1.09 LB-FT2	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	43	55	62	66	69	64
Efficiency	78.9	85.6	87	87.3	85.6	83	86.3
Speed	891	884	875	865	853	840	858
Line amperes	3.39	3.82	4.45	5.25	6.18	7.3	5.81

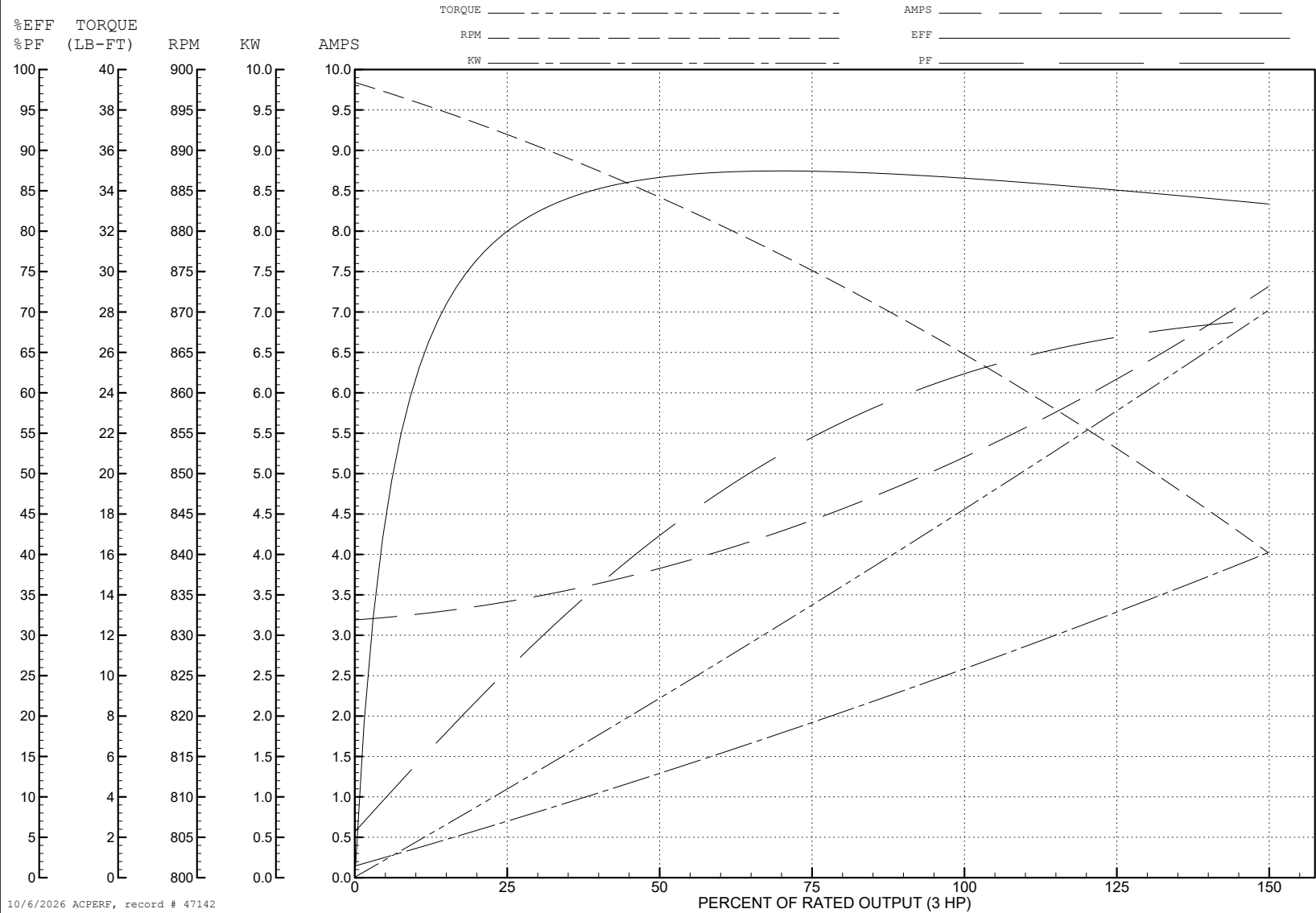
ABB Motors and Mechanical Inc.

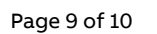
WINDING # 07WGY830

Typical performance - not guaranteed values.

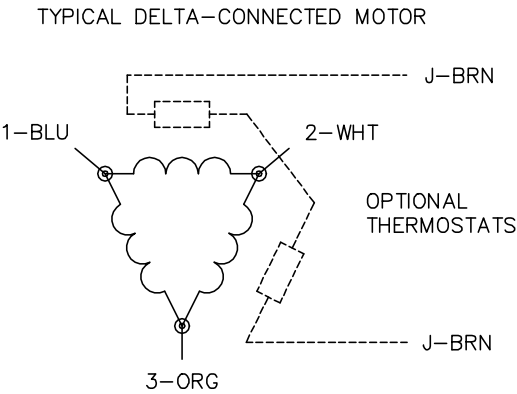
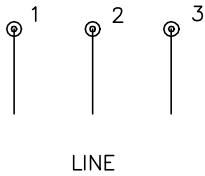
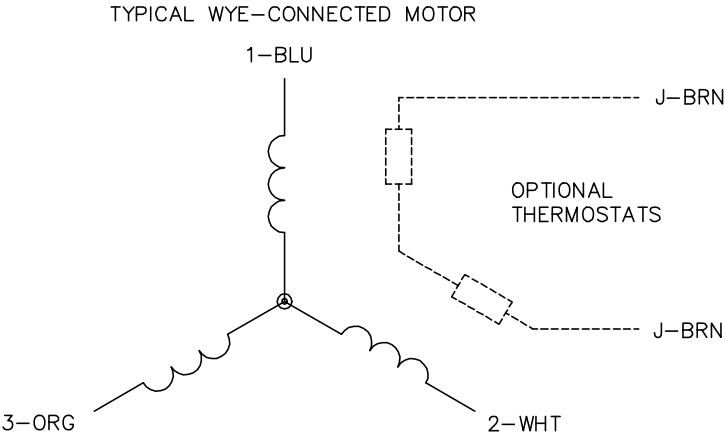
3 HP 3 PH 60 HZ 865 RPM 460 V 0744M

TORQUES (LB-FT): PO=49 PU=27.6 LR=30.6 LRA=25.6





CD0006



- 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: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

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

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