

ABB BALDOR RELIANCE III

Customer information packet

CECP4104T-5

30HP, 1770RPM, 3PH, 60HZ, 286TC, 1060M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	286TC
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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	1.0
Current @ Voltage	28.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	N
Type	AC
Mech. spec.	10H412
Base	
Status	PRD/A
Elec. spec.	10WGZ479
Layout	10LYH412
Eff. date	09-29-2025
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	06-11-2018

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1060M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.00 IN
Power Factor	84
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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

NP3241																	
CAT.NO.	CECP4104T-5			P/N						ENCLOSURE		TEFC					
SPEC.	10H412Z479G1		CC	010A	FRAME	286TC		S/N									
HP	30			CLASS	F	HZ	60	DES	B								
RPM	1770			RPM MAX		2700		PH	3	KVA-CODE		G					
VOLT	575			MOTOR WEIGHT			475										
AMP	28			SER.F.	1.15	PF	84	ODE BRG		6311	DE BRG		6311				
RATING	40C AMB-CONT			NEMA-NOM-EFF			93.6		GREASE		POLYREX EM						
							INV.TYPE		PWM								
TEMP CODE	T3C	INVERTER-TEMP-CODE			180												
TEMP =	160	C HP FR	60	C HP TO		90											
CT HZ FROM	1.0	CT HZ TO		60													
HTR-VOLTS		HTR-AMPS			HTR-WATTS			MAX. SPACE HEATER TEMP.					VT HZ FROM		O	VT HZ TO	60

AC Induction Motor Performance Data

Record # 53760

Typical performance - not guaranteed values

Winding: 10WGZ479-R001			Type: 1060M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		30	Full Load Torque		88.65 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		28	Breakdown Torque		267 LB-FT		
R.P.M.		1770	Pull-up Torque		120 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		146 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		173 A
Service Factor (S.F.)		1.15	No-load Current		10.53 A		
NEMA Nom. Eff.		93.6	Power Factor	84	Line-line Res. @ 25°C		0.379 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		63°C	
S.F. Amps				Temp. Rise @ S.F. Load		77°C	
				Locked-rotor Power Factor		30.6	
				Rotor inertia		4.77 lb-ft²	

Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	72	81	84	86	85	83
Efficiency	91	94	94.3	94	93.6	91.9	93.6
Speed	1793	1786	1779	1772	1763	1753	1770
Line amperes	12.39	16.69	22.06	28.33	35.06	42.67	33.3

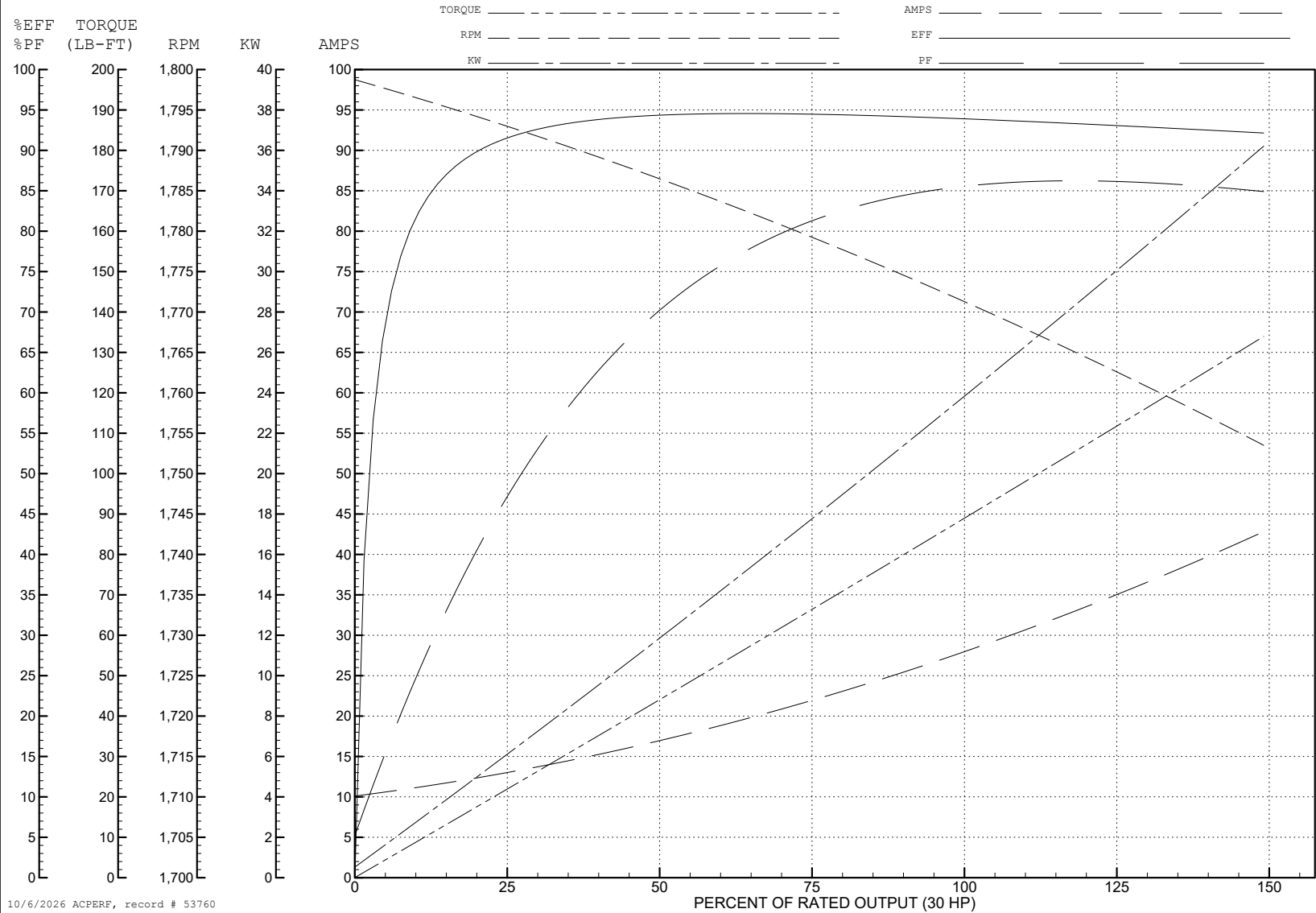
ABB Motors and Mechanical Inc.

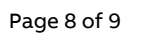
WINDING # 10WGZ479

Typical performance - not guaranteed values.

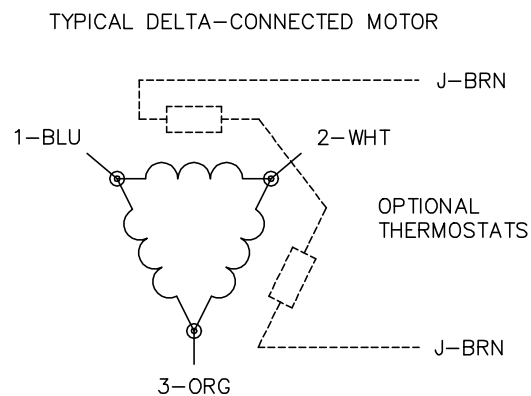
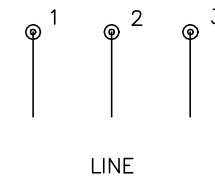
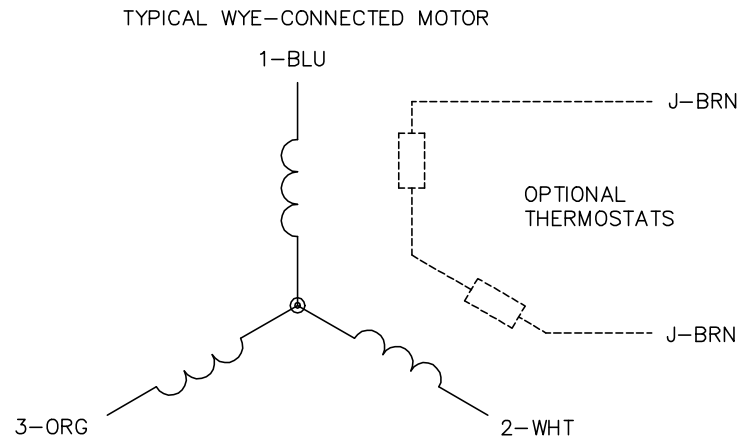
30 HP 3 PH 60 HZ 1770 RPM 575 V 1060M

TORQUES (LB-FT): PO=267 PU=120 LR=146 LRA=173





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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