

ABB BALDOR RELIANCE III

Customer information packet

CECP4104T

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	230.0 V @ 60 HZ 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	1.0
Current @ Voltage	72.000 A @ 230.0 V 36.000 A @ 460.0 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

Part Detail

Revision	P
Type	AC
Mech. spec.	10H412
Base	
Status	PRD/A
Elec. spec.	10WGZ506
Layout	10LYH412
Eff. date	09-29-2025
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	09-29-2016

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	36.0 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 Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 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 Extension Location	Pulley End
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			P/N						ENCLOSURE		TEFC				
SPEC.	10H412Z506G1		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	230/460			MOTOR WEIGHT			478									
AMP	72/36			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 # 59573

Typical performance - not guaranteed values

Winding: 10WGZ506-R004			Type: 1060M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		30	Full Load Torque		88.64 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		72/36	Breakdown Torque		267 LB-FT		
R.P.M.		1770	Pull-up Torque		116 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		142 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		215 A
Service Factor (S.F.)		1.15	No-load Current		13.5 A		
NEMA Nom. Eff.		93.6	Power Factor	84	Line-line Res. @ 25°C		0.234 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		62°C
S.F. Amps					Temp. Rise @ S.F. Load		76°C
					Locked-rotor Power Factor		29.7
					Rotor inertia		4.77 LB-FT ²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	71	80	84	85	85	83
Efficiency	91	94	94.3	94	93.7	92	93.4
Speed	1793	1787	1779	1772	1764	1753	1769
Line amperes	15.8	21.1	27.8	35.6	44	53.5	41.5

ABB Motors and Mechanical Inc.

WINDING # 10WGZ506

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1770 RPM 460 V 1060M

TORQUES (LB-FT): PO=267 PU=116 LR=142 LRA=215





