

ABB BALDOR RELIANCE III

Customer information packet

CBXMN18242T

2//1.5HP, 1760//1470RPM, 3PH, 60HZ, 182TC, 36

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPNV
Frame	182TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	2.000 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 UL
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	5.400 A @ 230.0 V 5.000 A @ 190.0 V 2.700 A @ 460.0 V 2.500 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGY459
Layout	36LYM726
Eff. date	03-16-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	03-29-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3630M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.24 IN
Power Factor	79
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0887XPSLEV												
NO.						CC	010A					
S/N						TEMP CODE	T3C					
SPEC.	36-0000-0499					INV.TYPE	PWM					
CAT.NO.	CBXMN18242T					C HP FR	60	C HP TO	90			
HP	2//1.5					CT HZ FROM	6	CT HZ TO	60			
VOLTS	230/460//190/380					VT HZ FROM	6	VT HZ TO	60			
AMPS	5.4/2.7//5/2.5					MAG CUR	2.9/1.45					
RPM	1760//1470					MX RPM	2700					
HZ	60//50	PH	3	CL	F	NOM.EFF.	87.5					
SER.F.	1.15	DES	B	SL HZ	1.3	WK2	0.28					
FRAME	182TC	RATING	40C AMB-CONT									
	1.15 SF ON SINE WAVE											

AC Induction Motor Performance Data

Record # 87278

Typical performance - not guaranteed values

Winding: 36WGY459-R001		Type: 3630M	Enclosure: TENV
Nameplate Data		230 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	2	Full Load Torque	5.963 LB-FT
Volts	208-230/460	Start Configuration	direct on line
Full Load Amps	5.8-5.4/2.7	Breakdown Torque	24.3 LB-FT
R.P.M.	1760	Pull-up Torque	9.24 LB-FT
Hz	60 Phase	Locked-rotor Torque	17 LB-FT
NEMA Design Code	B KVA Code	Starting Current	46.2 A
Service Factor (S.F.)	1.15	No-load Current	2.94 A
NEMA Nom. Eff.	87.5 Power Factor	Line-line Res. @ 25°C	1.3303 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	50°C
S.F. Amps		Temp. Rise @ S.F. Load	55°C
		Locked-rotor Power Factor	42.3

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	58	69	77	79	82	78
Efficiency	77.4	85.6	87.2	87.3	87.9	85.9	87.7
Speed	1792	1784	1777	1764	1760	1751	1762
Line amperes	3.24	3.85	4.65	5.569	6.61	7.83	6.19

ABB Motors and Mechanical Inc.

WINDING # 36WGY459

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1760 RPM 230 V 3630M

TORQUES (LB-FT): PO=24.3 PU=9.24 LR=17 LRA=46.2





