

ABB BALDOR RELIANCE III

Customer information packet

CEWDM3550T

1.5HP, 3500RPM, 3PH, 60HZ, 143TC, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	143TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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
Current @ Voltage	2.000 A @ 460.0 V 4.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	2.0 a

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGR445
Layout	35LYSS592
Eff. date	07-14-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	12-06-2019

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.12 IN
Power Factor	87
Product Family	Wash Down
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3500 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

NP1669L											
CAT.NO.	CEWDM3550T										
SPEC.	35-0000-0477										
HP	1.5										
VOLTS	230/460										
AMP	4/2										
RPM	3500										
FRAME	143TC		HZ	60				PH	3		
SER.F.	1.15	CODE	N	DES	B	CLASS		F			
NEMA-NOM-EFF	85.5	PF	87								
RATING	40C AMB-CONT										
CC	010A										
DE	6205		ODE	6203							
ENCL	TENV	SN									
BLANK	20:1CT, 20:1VT,1.00SF										

AC Induction Motor Performance Data

Record # 67482

Typical performance - not guaranteed values

Winding: 35WGR445-R020			Type: 3528M		Enclosure: TENV		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		2.3 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		4/2	Breakdown Torque		12 LB-FT		
R.P.M.		3500	Pull-up Torque		8.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		11 LB-FT	
NEMA Design Code		B	KVA Code	Starting Current		23.5 A	
Service Factor (S.F.)		1.15	No-load Current		0.9 A		
NEMA Nom. Eff.		85.5	Power Factor	Line-line Res. @ 25°C		6.95 Ω	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		73°C
S.F. Amps					Temp. Rise @ S.F. Load		84°C
					Locked-rotor Power Factor		48.4

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	71	81	87	90	91	89
Efficiency	73.8	82.5	85.2	86.1	86	85.4	86
Speed	3568	3544	3519	3493	3466	3434	3477
Line amperes	1.1	1.3	1.6	1.9	2.3	2.8	2.14

ABB Motors and Mechanical Inc.

WINDING # 35WGR445

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3500 RPM 460 V 3528M

TORQUES (LB-FT) : PO=12 PU=8.2 LR=11 LRA=23.5





