

ABB BALDOR RELIANCE III

Customer information packet

CEWWDM3558T

2HP, 1755RPM, 3PH, 60HZ, 145TC, 3528M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA CSA EEV
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	5.800 A @ 230.0 V 5.800 A @ 208.0 V 2.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	F
Type	AC
Mech. spec.	35E1678
Base	
Status	NLA/A
Elec. spec.	35WGN909
Layout	35LYE1678
Eff. date	07-27-2016
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	06-20-2013

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.9 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.28 IN
Power Factor	75
Product Family	Super White Washdown
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1755 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.	CEWWDM3558T								
SPEC.	35E1678N909G1								
HP	2								
VOLTS	208-230/460								
AMP	5.8/2.9								
RPM	1755								
FRAME	145TC		HZ		60		PH		3
SER.F.	1.15	CODE		L	DES	B	CLASS		F
NEMA-NOM-EFF	86.5	PF		75					
RATING	40C AMB-CONT								
CC	010A								
DE	6205		ODE		6205				
ENCL	TEFC	SN							
BLANK									

AC Induction Motor Performance Data

Record # 42530

Typical performance - not guaranteed values

Winding: 35WGN909-R001			Type: 3528M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		5.985 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		5.8/2.9	Breakdown Torque		24.9 LB-FT		
R.P.M.		1755	Pull-up Torque		15.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		17.2 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		23.9 A
Service Factor (S.F.)		1.15	No-load Current		1.81 A		
NEMA Nom. Eff.		86.5	Power Factor	75	Line-line Res. @ 25°C		8.1641 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		65°C
S.F. Amps					Temp. Rise @ S.F. Load		77°C
					Locked-rotor Power Factor		52
					Rotor inertia		0.165 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	66	75	80	83	78
Efficiency	75.7	84.1	86.4	86.6	85.9	84.6	86.1
Speed	1790	1779.4	1768.5	1756.1	1742.7	1727.9	1748
Line amperes	1.89	2.11	2.46	2.91	3.4	4	3.2

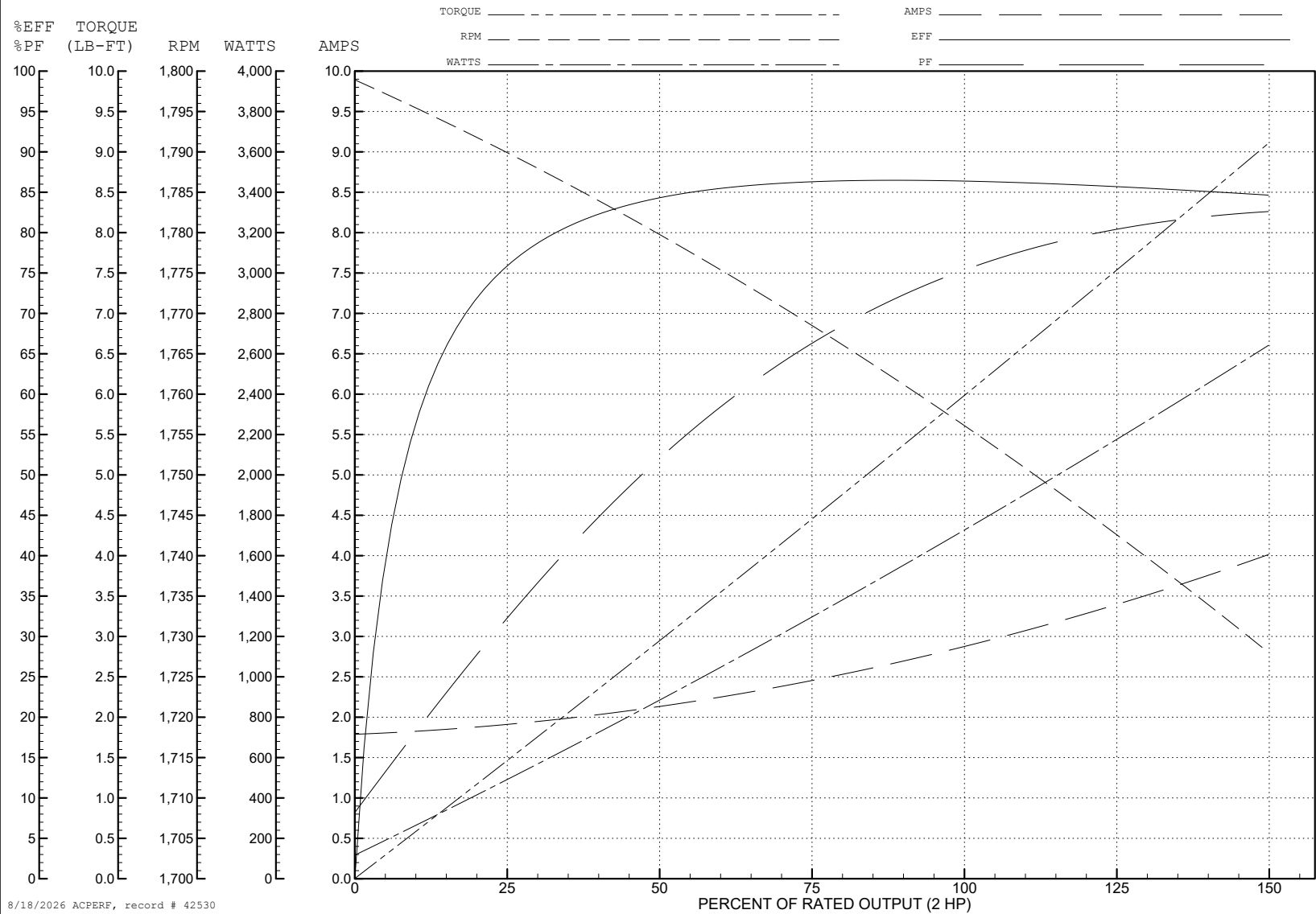
ABB Motors and Mechanical Inc.

WINDING # 35WGN909

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1755 RPM 460 V 3528M

TORQUES (LB-FT): PO=24.9 PU=15.9 LR=17.2 LRA=23.9



AC Induction Motor Performance Data

Record # 45916

Typical performance - not guaranteed values

Winding: 35WGN909-R001			Type: 3528M		Enclosure: TEFC		
Nameplate Data			208 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		2	Full Load Torque		6.01 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		5.8/2.9	Breakdown Torque		19.9 LB-FT		
R.P.M.		1755	Pull-up Torque		12.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		13.3 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		41.9 A
Service Factor (S.F.)		1.15	No-load Current		2.83 A		
NEMA Nom. Eff.		86.5	Power Factor	75	Line-line Res. @ 25°C		2 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		65°C
S.F. Amps					Temp. Rise @ S.F. Load		80°C
					Locked-rotor Power Factor		51
					Rotor inertia		0.165 LB-FT2

Load Characteristics 208 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	65	76	82	86	87	84
Efficiency	79.5	86	87.2	86.5	85.3	83.2	85.8
Speed	1788	1775	1762	1747	1730	1711	1737
Line amperes	3.09	3.74	4.67	5.83	7.07	8.58	6.57

ABB Motors and Mechanical Inc.

WINDING # 35WGN909

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1755 RPM 208 V 3528M

TORQUES (LB-FT): PO=19.9 PU=12.3 LR=13.3 LRA=41.9

