

ABB BALDOR RELIANCE III

Customer information packet

CTM2333T

15HP, 1760RPM, 3PH, 60HZ, 254T, 0756M, TEAO, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	254T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 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	CSA 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	40.000 A @ 208.0 V 38.000 A @ 230.0 V 19.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	A
Type	AC
Mech. spec.	07N393
Base	
Status	PRD/A
Elec. spec.	07WGT572
Layout	07LYN393
Eff. date	08-17-2023
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	03-17-2023

High Voltage Full Load Amps	19.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.16 IN
Power Factor	81
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 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

NP1258									
CAT.NO.	CTM2333T								
SPEC.	07N393T572G1								
HP	15								
VOLTS	208-230/460								
AMP	40-38/19								
RPM	1760								
FRAME	254T	HZ		60		PH		3	
SER.F.	1.15	CODE		J	DES		A	CL	F
NEMA-NOM-EFF	91	PF		81					
RATING	40C AMB-CONT								
CC									
DE	6309	ODE		6206					
ENCL	TEAO	SN							
	1700 FPM AT 170CFM								

AC Induction Motor Performance Data

Record # 99014

Typical performance - not guaranteed values

Winding: 07WGT572-R001			Type: 0756M		Enclosure: TEAO	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15	Full Load Torque		44.57 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		40-38/19	Breakdown Torque		168 LB-FT	
R.P.M.		1760	Pull-up Torque		64.6 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		102 LB-FT	
NEMA Design Code		A	KVA Code		J	
Service Factor (S.F.)		1.15	Starting Current		149 A	
NEMA Nom. Eff.		91	Power Factor		81	
Rating - Duty		40C AMB-CONT	Line-line Res. @ 25°C		0.648 Ω	
S.F. Amps			Temp. Rise @ Rated Load		66°C	
			Temp. Rise @ S.F. Load		79°C	
			Locked-rotor Power Factor		35.9	
			Rotor inertia		1.38 lb-ft²	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	65	76	81	83	84	82
Efficiency	87.6	91.3	91.9	91.3	90.4	89.1	90.8
Speed	1791	1783	1775	1765	1754	1743	1758
Line amperes	9.13	11.65	14.96	19	23.28	28.06	21.6

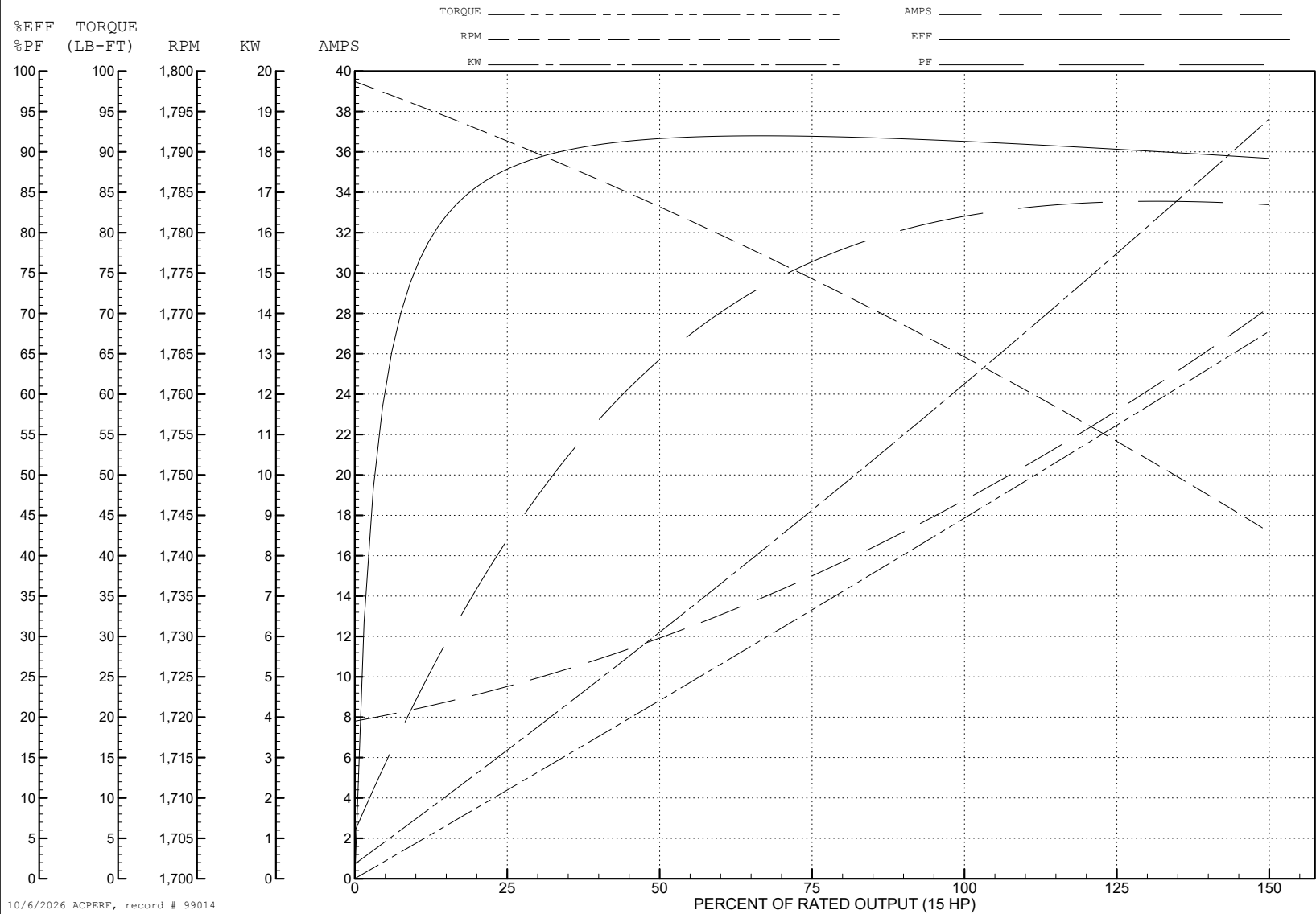
ABB Motors and Mechanical Inc.

WINDING # 07WGT572

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1760 RPM 460 V 0756M

TORQUES (LB-FT): PO=168 PU=64.6 LR=102 LRA=149



AC Induction Motor Performance Data

Record # 99015

Typical performance - not guaranteed values

Winding: 07WGT572-R001			Type: 0756M		Enclosure: TEAO	
Nameplate Data			208 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15	Full Load Torque		44.73 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		40-38/19	Breakdown Torque		135 LB-FT	
R.P.M.		1760	Pull-up Torque		50.5 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		79.4 LB-FT	
NEMA Design Code		A	KVA Code		J	
Service Factor (S.F.)		1.15	Starting Current		262 A	
NEMA Nom. Eff.		91	Power Factor		81	
Rating - Duty		40C AMB-CONT	Line-line Res. @ 25°C		0.162 Ω	
S.F. Amps			Temp. Rise @ Rated Load		67°C	
			Temp. Rise @ S.F. Load		83°C	
			Locked-rotor Power Factor		35.9	
			Rotor inertia		1.38 lb-ft²	

Load Characteristics 208 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	75	82	85	86	85	86
Efficiency	90	92.4	92.3	91.2	89.9	88.1	90.4
Speed	1790	1780	1770	1758	1745	1731	1750
Line amperes	15.62	22.09	30.24	39.89	50.16	61.84	46.1

ABB Motors and Mechanical Inc.

WINDING # 07WGT572

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1760 RPM 208 V 0756M

TORQUES (LB-FT): PO=135 PU=50.5 LR=79.4 LRA=262

