

ABB BALDOR RELIANCE III

Customer information packet

CTM3774T

10 AIR OVERHP, 1760RPM, 3PH, 60HZ, 215T, 0736

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	215T
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	10.000 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	27.700 A @ 208.0 V 27.000 A @ 230.0 V 13.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	07N391
Base	
Status	PRD/A
Elec. spec.	07WGT574
Layout	07LYN391
Eff. date	06-06-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	03-17-2023

High Voltage Full Load Amps	13.5 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 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0736M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.54 IN
Power Factor	77
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	1.375 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

NP2134									
CAT.NO.	CTM3774T								
SPEC.	07N391T574G1								
HP	10 AIR OVER								
VOLTS	208-230/460								
AMP	27.7-27/13.5								
RPM	1760								
FRAME	215T	HZ		60		PH		3	
SER.F.	1.15	CODE		J	DES		B	CL	F
NEMA-NOM-EFF	89.5	PF		77					
RATING	40C AMB-CONT								
CC									
DE	6307	ODE		6206					
ENCL	TEAO	SN							
	1700 FPM 170 CFM								

AC Induction Motor Performance Data

Record # 99023

Typical performance - not guaranteed values

Winding: 07WGT574-R001			Type: 0736M		Enclosure: TEAO		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10 AIR OVER	Full Load Torque		29.83 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		27.7-27/13.5	Breakdown Torque		121 LB-FT		
R.P.M.		1760	Pull-up Torque		48.8 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		68.3 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		90.4 A
Service Factor (S.F.)		1.15		No-load Current		7.27 A	
NEMA Nom. Eff.		89.5	Power Factor	77	Line-line Res. @ 25°C		1.22 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		75°C	
S.F. Amps				Temp. Rise @ S.F. Load		90°C	
				Locked-rotor Power Factor		39.5	
				Rotor inertia		0.885 lb-ft²	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	58	70	77	80	82	84
Efficiency	83.3	88.8	89.7	89.5	88.5	86.8	88.9
Speed	1789	1779	1769	1759	1747	1733	1743
Line amperes	7.76	9.16	11.22	13.54	16.53	19.79	16.1

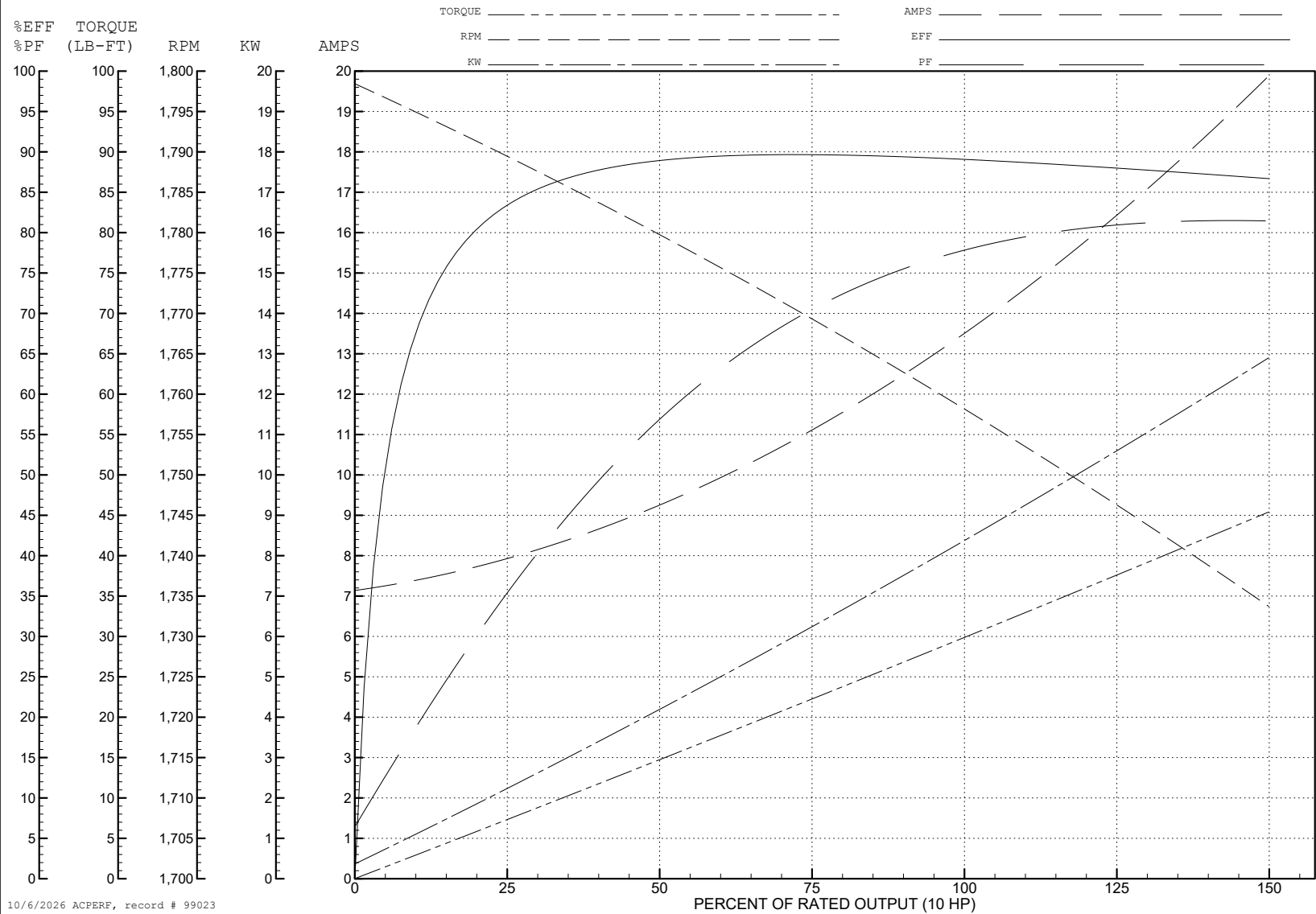
ABB Motors and Mechanical Inc.

WINDING # 07WGT574

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1760 RPM 460 V 0736M

TORQUES (LB-FT): PO=121 PU=48.8 LR=68.3 LRA=90.4



AC Induction Motor Performance Data

Record # 99028

Typical performance - not guaranteed values

Winding: 07WGT574-R001			Type: 0736M		Enclosure: TEAO		
Nameplate Data			208 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10 AIR OVER	Full Load Torque		29.95 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		27.7-27/13.5	Breakdown Torque		97.2 LB-FT		
R.P.M.		1760	Pull-up Torque		38 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		53.2 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		159 A
Service Factor (S.F.)		1.15		No-load Current		11.03 A	
NEMA Nom. Eff.		89.5	Power Factor	77	Line-line Res. @ 25°C		0.304 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		75°C	
S.F. Amps				Temp. Rise @ S.F. Load		94°C	
				Locked-rotor Power Factor		39.5	
				Rotor inertia		0.885 lb-ft²	

Load Characteristics 208 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	69	79	84	84	84	84
Efficiency	86.5	90.2	90.3	89.5	87.9	85.6	88.5
Speed	1788	1776	1764	1752	1737	1720	1743
Line amperes	12.65	16.57	21.92	27.74	35.02	43.05	32.1

ABB Motors and Mechanical Inc.

WINDING # 07WGT574

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1760 RPM 208 V 0736M

TORQUES (LB-FT): PO=97.2 PU=38 LR=53.2 LRA=159

