

PRODUCT INFORMATION PACKET

Model No: 254TTTCD16545

Catalog No: U1871A

XRI®-SD Cooling Tower Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
254TV Frame, TEAO



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Nameplate Specifications

Phase	3	Output HP	15 & 10 Hp
Output KW	11.2 & 7.5 kW	Voltage	230/460 & 190/380 V
Speed	1772 & 1475 rpm	Service Factor	1.15 & 1.15
Frame	254TV	Enclosure	Totally Enclosed Air Over
Thermal Protection	No Protection	Efficiency	92.4 & 92.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	37.5/18.8 & 31/15.4 A	Power Factor	82
Duty	Continuous	Insulation Class	H
Design Code	B	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.6738 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal Or Up Or Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	1.625 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 10:1/VARIABLE 10:1
Connection Drawing	EE7308	Outline Drawing	SS620955-100

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NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN RM 11/20/1990
					DEC.	INCHES		
5	CHG TO REGAL LOGO	SL 09/10/2015	AB					CHK ML 11/21/1990
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1			APPD SAS 04/24/2003
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		TITLE CONNECTION DIAGRAM	SCALE 1=1
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		3Ø - DUAL VOLTAGE MOTOR	REF
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		MAT'L.	FMF
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT			RFP				CAD FILE ee7308	PREV
			DIST	WP			SIZE A	DRAWING NO. EE7308
								PAGE OF 5
								REV. 5

Data Sheet

Date: 9/7/2023
 Customer: _____
 Attention: _____
 Submitted by: RAMYA



254TTTCD16545

Submittal

Data @ 460 V

Motor Load Data

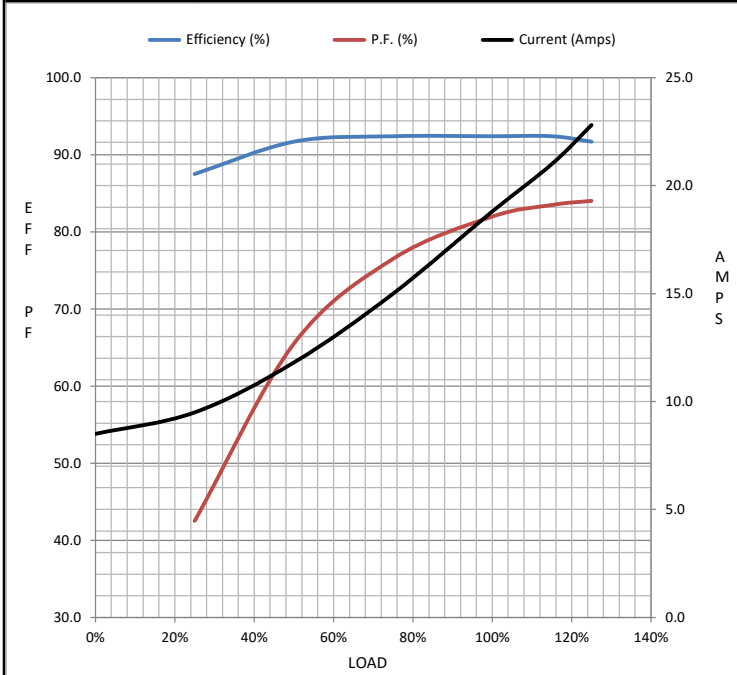
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	8.5	9.5	11.8	15.0	18.8	21.0	22.8	113
Torque (ft-lb)	0.00	11.0	22.0	33.5	44.5	51.5	56.0	110
RPM	1800	1792	1785	1780	1772	1,768	1762	0
Efficiency (%)		87.5	91.7	92.4	92.4	92.4	91.7	
P.F. (%)	5.0	42.5	65.5	76.5	82.0	83.5	84.0	41.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1622	1772	1800
Current (Amps)	113	100	66.0	18.8	8.5
Torque (ft-lb)	110	76.5	138	44.5	0.00

Information Block

HP	15.0			
Sync. RPM	1800			
Frame	254			
Enclosure	TEAO			
Construction	TTC			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	0 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	2.40 Lb-Ft ²			
Ref Wdg	HA31604019 R1			
Sound Pressure @ 1M	999 dBA			
VFD Rating	CONSTANT 10:1/VARIABLE 10:1			
Outline Dwg				
Conn. Diag	EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.4400	0.2440	1.3040	1.4670	31.5630



Speed - Torque Curve

