

PRODUCT INFORMATION PACKET

Model No: 284TTDP4027

Catalog No: U502

Fire Pump Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 284T Frame, DP



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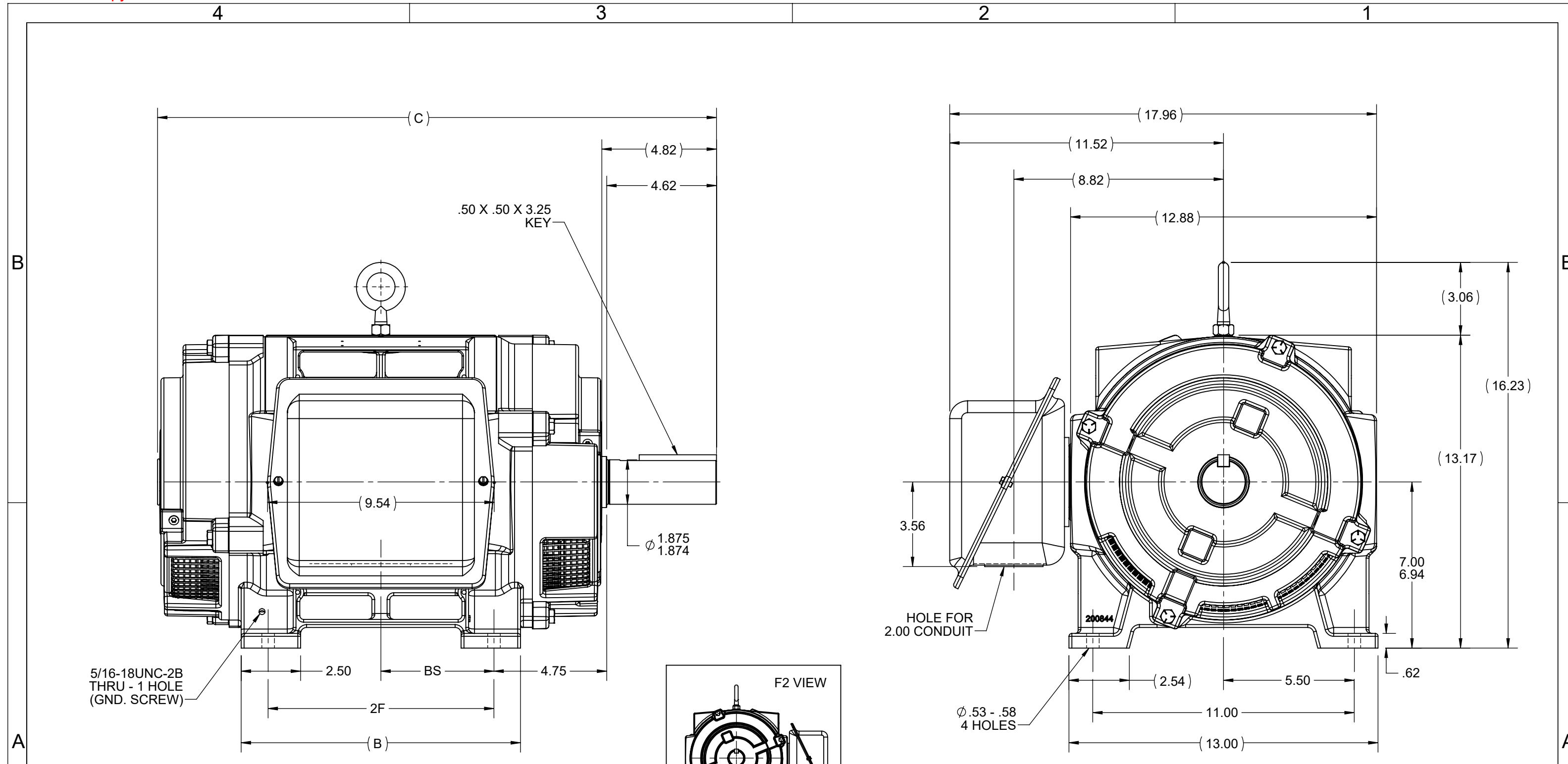
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Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp
Output KW	18.7 & 14.9 kW	Voltage	230/460 & 190/380 V
Speed	1765 & 1468 rpm	Service Factor	1.15 & 1.15
Frame	284T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91.7 & 91 %
Ambient Temperature	50 °C	Frequency	60 & 50 Hz
Current	61/30.5 & 59/29.5 A	Power Factor	84
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	F
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	No	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.399 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	23.49 in
Frame Length	12.75 in	Shaft Diameter	1.875 in
Shaft Extension	4.82 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS200030-1275	Connection Drawing	A-EE7358



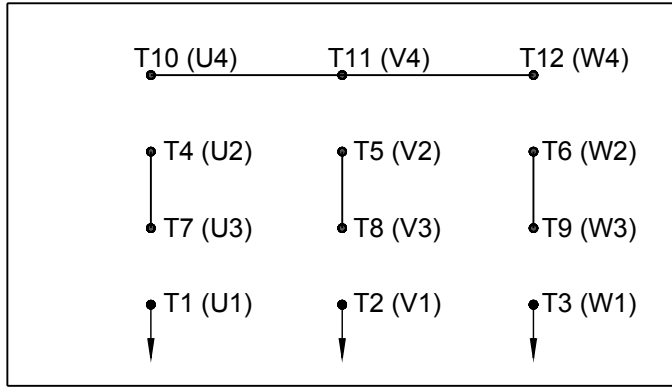
- NOTES**
- BOX CAN BE ROTATED IN 90° STEPS
 - BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
 - NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	BS
1275	284T	11.75	23.49	9.50	4.75
1425	286T	13.25	24.99	11.00	5.50

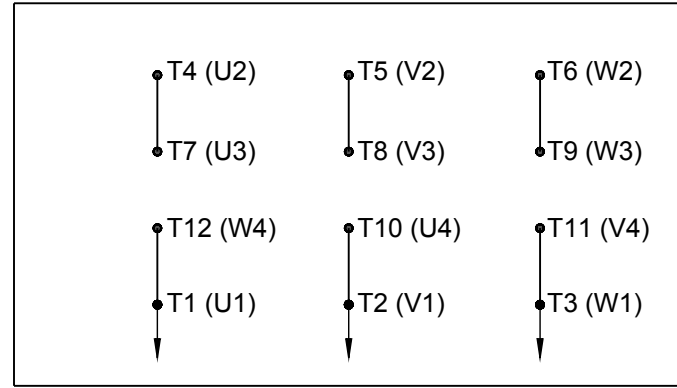
DRAWING REVISION P	REVISION BY KR	REV DATE/© DATE 09/13/2022	TOLERANCES (EXCEPT AS NOTED): DEC. INCH mm ANGLE .X ±0.1 [±3] ±7' 30" .XX ±0.03 [±0.8] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 200 INCH/mm 5.1 mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY JL	Regal Beloit America, Inc.
REQUEST NUMBER NMR-0216346	APPROVED BY VT	DATE 09/13/2022		DATE 11-17-1987	
REQUEST NUMBER DESCRIPTION UPDATED DRAWING AS PER SOLIDWORK STANDARDS				APPROVED BY LS	DESCRIPTION OUTLINE DR. PR. - CAST IRON - 280T FR. - TS
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				REFERENCE	SIZE B
				THIRD ANGLE PROJECTION	DRAWING NUMBER SS200030
					SHEET 1 OF 1

HIGH VOLTAGE

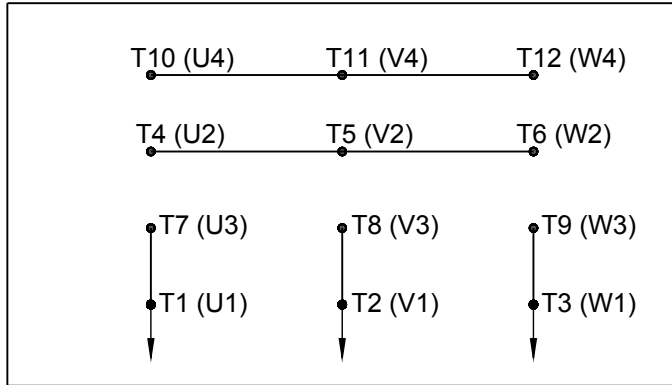
WYE START



DELTA RUN

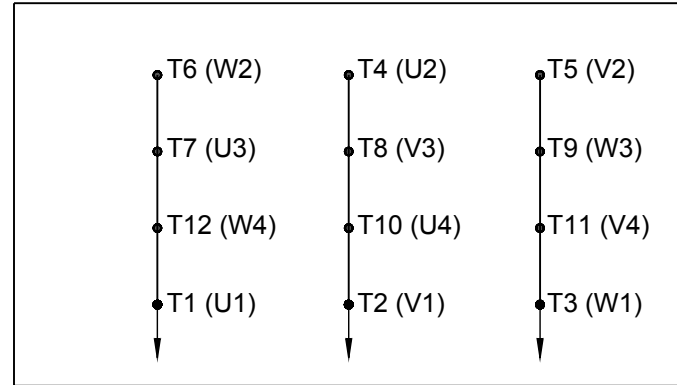


WYE START



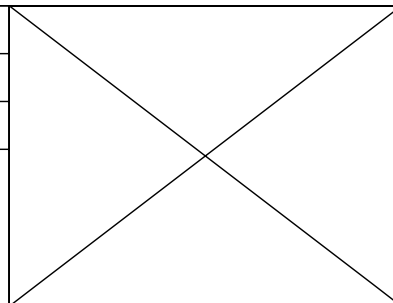
LOW VOLTAGE

DELTA RUN



4/2 CKTY Δ

DRAWING REVISION D	REVISION BY JWO	DATE 01-26-2016
ECO ECO-0092547	APPROVED BY TB	DATE 01-26-2016
ECO DESCRIPTION ADDED IEC MARKINGS		
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DRAWN BY BLR	Regal Beloit America, Inc.
DATE 03-09-1998	
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL
DATE 03-23-1998	12 LEAD - DUAL VOLT. - WYE START - DELTA RUN
REFERENCE	MATERIAL
THIRD ANGLE PROJECTION	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7358
	SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 284TTDP4027 BC
CONN. DIAGRAM: A-EE7358
OUTLINE: B-SS200030-1275

WINDING#: K2564256 NONE 1
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25&20	18.7&14.9	1800	1765&1468	284T	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	61/30.5&59/29 .5	PWS(LV ONLY) & YDRUN	CONTINUOU S	B3	1.15/1.15	50	3300

FULL LOAD EFF: 91.7&91	3/4 LOAD EFF: 92.4	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 84&84	3/4 LOAD PF: 82	1/2 LOAD PF: 74	90.2	SQ CAGE IND RUN	21.6 / 10.8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
74.5 LB-FT	340 / 170	120 LB-FT 161	170 LB-FT 228	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	2.7 LB-FT^2	135 LB-FT^2	20 SEC.	2	360 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	RED (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6311	6210						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
- FT-LB NONE V NONE Hz

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DATE: 06/23/2017 08:35:53 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 29-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



284TTDP4027

Submittal

Data @ 460 V

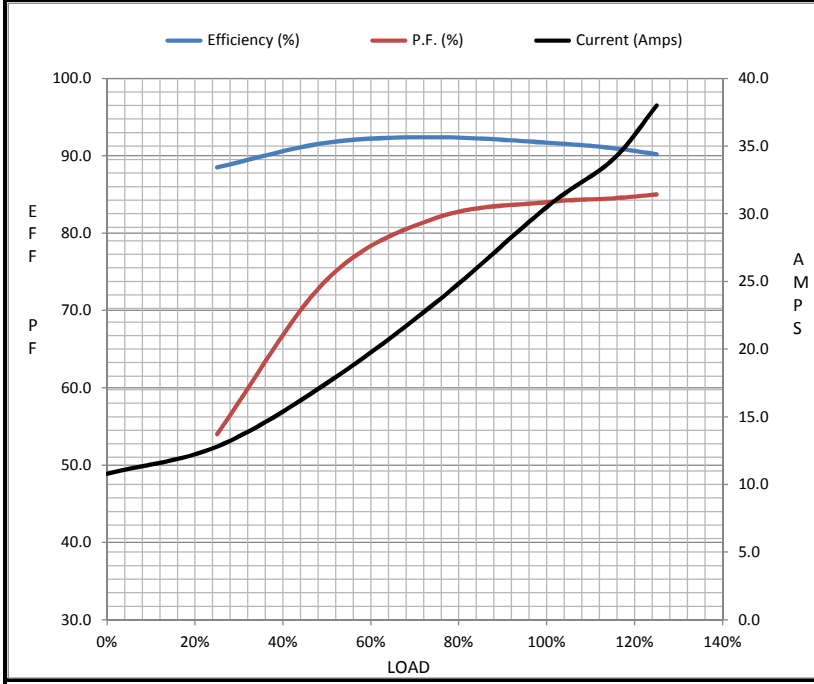
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	10.8	12.8	17.5	23.5	30.5	34.0	38.0	170
Torque (ft-lb)	0.00	18.5	36.5	56.0	74.5	84.0	94.0	120
RPM	1800	1795	1785	1775	1765	1,760	1755	0
Efficiency (%)		88.5	91.7	92.4	91.7	91.0	90.2	
P.F. (%)	6.5	54.0	74.0	82.0	84.0	84.5	85.0	38.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1250	1650	1765	1800
Current (Amps)	170	155	105	30.5	10.8
Torque (ft-lb)	120	115	170	74.5	0.00

Information Block				
HP	25.0			
Sync. RPM	1800			
Frame	284			
Enclosure	DP			
Construction	TDP			
Voltage	230/460#190/38(V)			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	2.70 Lb-Ft ²			
Ref Wdg	K2564256 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS200030-1275			
Conn. Diag	A-EE7358			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2570	0.1650	0.9350	1.3910	25.7640



Speed - Torque Curve

