

Starter Equipment

**Direct on line starting of squirrel - cage standard motors
VDE 0660; IEC 157 - 1; NEMA - ABI - BS 4752**

Project No.: ModelProject
Document No.: Starter Equipment Report
Report Format:

Standards Un = 3x 400.00 V/ V-50Hz Ik<40kA / cos 0 = 0.25
Indexed by: Voltage

Rev No.: P
Rev Date: 10/24/2007
Page 1 of 3

Revised By: SPR
Checked By:
Approved By:

Manufacturer: cb: WESTINGHOUSE cont: SIEMENS ol: BBC

Cell	Motor Output		Motor rated curr.	Circuit breaker Ik >35kA				Contactor		Overcurrent protection				EL protec	CT for remote amm	Amm. scale	Cable
				Type	Rated curr.	O/C protection		Type	Rated curr.	Over load		OL w/satur CT for heavy ST.					Cross sect. Type
						Therm. range Set	Magn. range Set			Type	Range Set	Type	Range No.turn				
mm	kW	HP	A	A	A	A	A	A	A	A	A	A	A	A	A	mm2	
160.00 2M	0.75	1.00	1.80	HFD3016	16.00	16.00 0.00 0.00	140.00 0.00 0.00	3TB42	16.00	T25	1.60 2.40 1.80	0.00 0.00 0.00			0.00	3 x 2.5	
160.00 2M	1.10	1.50	2.60	HFD3016	16.00	16.00 0.00 0.00	140.00 0.00 0.00	3TB42	16.00	T25	2.00 3.20 2.60	0.00 0.00 0.00			0.00	3 x 2.5	
160.00 2M	1.50	2.00	3.50	HFD3016	16.00	16.00 0.00 0.00	140.00 0.00 0.00	3TB42	16.00	T25	2.50 4.00 3.50	0.00 0.00 0.00			0.00	3 x 2.5	
160.00 2M	2.20	3.00	4.70	HFD3016	16.00	16.00 0.00 0.00	140.00 0.00 0.00	3TB42	16.00	T25	4.00 6.30 5.00	0.00 0.00 0.00			0.00	3 x 2.5	
160.00 2M	3.00	4.00	6.50	HFD3016	16.00	16.00 0.00 0.00	140.00 0.00 0.00	3TB42	16.00	T25	5.00 8.00 6.50	0.00 0.00 0.00			0.00	3 x 2.5	
160.00 2M	4.00	5.50	7.90	HFD3016	16.00	16.00 0.00 0.00	140.00 0.00 0.00	3TB42	16.00	T25	6.70 10.00 7.90	0.00 0.00 0.00			0.00	3 x 2.5	
240.00 3M	5.50	7.50	10.70	HFD3025	25.00	25.00 0.00 0.00	200.00 0.00 0.00	3TB44	32.00	T25	8.50 13.00 11.00	40.00 63.00 3.00			0.00	3 x 4	
240.00 3M	7.50	10.00	14.00	HFD3025	25.00	25.00 0.00 0.00	200.00 0.00 0.00	3TB44	32.00	T25	13.00 17.00 14.00	40.00 63.00 3.00			0.00	3 x 6	
320.00 4M	11.00	15.00	20.60	HFW3100	100.00	80.00 100.00 0.00	500.00 1,000.00 500.00	3TF48	75.00	T25	23.00 18.00 21.00	40.00 63.00 2.00			0.00	3 x 10	

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				Type	Rated curr.	O/C protection		Type	Rated curr.	Over load		OL w/satur CT for heavy ST.					Cross sect. Type
						Therm. range Set	Magn. range Set			Type	Range Set	Type	Range No.turn				
mm	kW	HP	A	A	A	A	A	A	A	A	A	A				mm2	
320.00 4M	15.00	20.00	27.00	HFW3100	100.00	80.00 100.00 0.00	500.00 1,000.00 500.00	3TF48	75.00	T25	32.00 26.00 27.00	T500	40.00 63.00 2.00			0.00	3 x 16
320.00 4M	19.50	25.00	34.00	HFW3100	100.00	80.00 100.00 0.00	500.00 1,000.00 630.00	3TF48	75.00	TSA45	45.00 30.00 34.00	T500S	63.00 100.00 2.00			0.00	3 x 25
320.00 4M	22.00	30.00	40.50	HFW3100	100.00	80.00 100.00 0.00	500.00 1,000.00 800.00	3TF48	75.00	TSA45	45.00 30.00 40.50	T500S	40.00 63.00 1.00			0.00	3 x 25
320.00 4M	30.00	40.00	53.50	HFW3100	100.00	80.00 100.00 0.00	500.00 1,000.00 1,000.00	3TF48	75.00	T105	63.00 45.00 53.50	T500S	40.00 63.00 1.00			0.00	3 x 35
480.00 6M	37.00	50.00	66.50	HFW3125	125.00	100.00 125.00 0.00	625.00 1,250.00 1,250.00	3TF50	110.00	T105	82.00 57.00 66.50	T500S	63.00 100.00 1.00	Yes	100/1	0.00	3 x 50
480.00 6M	45.00	60.00	79.00	HJW3160	160.00	125.00 160.00 0.00	800.00 1,600.00 1,600.00	3TF50	110.00	T105	82.00 57.00 79.00	T500S	63.00 100.00 1.00	Yes	100/1	0.00	3 x 70
640.00 8M	55.00	75.00	98.00	HJW3200	200.00	160.00 200.00 0.00	1,000.00 2,000.00 2,000.00	3TF52	170.00	T105	120.00 100.00 100.00	T500S	63.00 100.00 1.00	Yes	100/1	0.00	3 x 95/50
800.00 10M	75.00	100.00	129.00	HJW3250	250.00	200.00 250.00 0.00	1,250.00 2,500.00 2,250.00	3TF52	170.00	T170	160.00 110.00 129.00	T500S	100.00 160.00 1.00	Yes	150/1	0.00	2x[3 x 50]
800.00 10M	90.00	125.00	160.00	HJW3250	250.00	200.00 250.00 0.00	1,250.00 2,500.00 2,500.00	3TF54	250.00	T170	200.00 140.00 160.00	T500S	100.00 160.00 1.00	Yes	200/1	0.00	2x[3 x 70]

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				Hight Type	mm	kW	HP	A	A	O/C protection		Type	Rated curr.				Over load
Type	Rated curr.	Therm. range Set	Magn. range Set							Type	Range Set			Type	Range No.turn		
800.00 10M	110.00	150.00	192.00	HJW3250	250.00	200.00 250.00 0.00	1,250.00 2,500.00 2,500.00	3TF56	400.00	T170	200.00 140.00 192.00	T500S	160.00 250.00 1.00	Yes	200/1	0.00	2x[3 x 95]