



# Crane Duty Motors Chart

LV MOTORS  
32, NIT , INDUSTRIAL AREA  
FARIDABAD

Doc no-PC/CD-002/Rev-B  
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Date-09.11.2009

(For DOL Supply )

**Series Name-KHX+ & M2BA**  
**Enclosure-TEFC**  
**Protection/Cooling-IP55 / IC411**  
**Insulation class-F**  
**Temperature rise Class-B**

**Pole-4**

**415V±10%**  
**50Hz±5%**  
**Ambient : 50 deg**  
**Duty : S4 & S5 (equivalent)**

Frame	60 Starts				150 Starts				300 Starts				Motor GD Sq. Kgm.sq	Weight Kg
	25% OR 40 % CDF		60 % CDF		25% OR 40 % CDF		60 % CDF		25% OR 40 % CDF		60 % CDF			
	Kw	In (A)	Kw	In (A)	Kw	In (A)	Kw	In (A)	Kw	In (A)	Kw	In (A)		
KM2BA71A4	0.25	0.75	0.25	0.75	0.25	0.75	0.25	0.75	0.25	0.75	0.25	0.75	0.003	10
KM2BA71B4	0.37	0.9	0.37	0.9	0.37	0.9	0.37	0.9	0.37	0.9	0.37	0.9	0.004	11
KM2BA71C4	0.55	1.5	0.55	1.5	0.55	1.5	0.55	1.5	0.55	1.5	0.55	1.5	0.004	12
KM2BA80B4	0.75	1.9	0.75	1.9	0.75	1.9	0.75	1.9	0.75	1.9	0.75	1.9	0.008	16
KM2BA80D4	1.10	2.8	1.10	2.8	1.10	2.8	1.10	2.8	1.10	2.8	1.10	2.8	0.008	17
KM2BA90L4	1.50	3.4	1.50	3.4	1.50	3.4	1.50	3.4	1.50	3.4	1.50	3.4	0.018	25
KM2BA90LD4	2.20	5.1	2.20	5.1	2.20	5.1	2.20	5.1	2.20	5.1	2.20	5.1	0.022	28
KM2BA100LC4	3.70	9.0	3.70	9.0	3.70	9.0	3.70	9.0	3.70	9.0	3.70	9.0	0.038	36
KM2BA112MB4	5.50	12.8	5.50	12.8	5.50	12.8	5.50	12.8	5.50	12.8	5.50	12.8	0.050	34
KM2BA132M4	7.50	14.8	7.50	14.8	7.50	14.8	7.50	14.8	7.50	14.8	7.50	14.8	0.131	70
KM2BA132MB4	9.30	19	9.30	19	9.30	19	9.30	19	9.30	19	9.30	19	0.14636	73
KHX+160MLD4	11	21	11	21	11	21	11	21	11	21	11	21	0.252	145
KHX+160MLE4	15	28	15	28	15	28	15	28	15	28	15	28	0.302	160
KHX+160MLE4	18.5	35.6	18.5	35.6	18.5	35.6	18.5	35.6	*	-	*	-	0.302	160
KHX+180MLC4	22	40.5	22	40.5	22	40.5	22	40.5	*	-	*	-	0.54	185
KHX+200MLC4	30	54.5	30	54.5	30	54.5	30	54.5	*	-	*	-	1.16	245

Note :-

- 1) Ratings marked as \* & 225 frame onwards can be offered against enquiry
- 2) Separate derations are required for different service factors for different cranes & ambient temperature
- 3) Amb deration chart:-

<b>Permissible Output</b>	<b>100%</b>	<b>95%</b>	<b>90%</b>
<b>Amb. Temp.</b>	<b>50°</b>	<b>55°</b>	<b>60°</b>



# Crane Duty Motors Chart

LV MOTORS  
32, NIT , INDUSTRIAL AREA  
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**(For DOL Supply)**

**Series Name-KHX+ & M2BA**  
**Enclosure-TEFC**  
**Protection/Cooling-IP55 / IC411**  
**Insulation class-F**  
**Temperature rise Class-B**

**Pole-6**

**415V±10%**  
**50Hz±5%**  
**Ambient : 50 deg**  
**Duty : S4 & S5 (equivalent)**

	60 Starts				150 Starts				300 Starts				Motor GD Sq.	Weight
	25% OR 40 % CDF		60 % CDF		25% OR 40 % CDF		60 % CDF		25% OR 40 % CDF		60 % CDF			
Frame	Kw	In (A)	Kw	In (A)	Kw	In (A)	Kw	In (A)	Kw	In (A)	Kw	In (A)	Kgm.sq	Kg
KM2BA71A6	0.18	0.6	0.18	0.6	0.18	0.6	0.18	0.6	0.18	0.6	0.18	0.6	0.004	10
KM2BA71B6	0.25	0.8	0.25	0.8	0.25	0.8	0.25	0.8	0.25	0.8	0.25	0.8	0.004	12
KM2BA71B6	0.37	1.4	0.37	1.4	0.37	1.4	0.37	1.4	0.37	1.4	0.37	1.4	0.004	12
KM2BA80B6	0.55	70	0.55	1.5	0.55	1.5	0.55	1.5	0.55	1.5	0.55	1.5	0.010	17
KM2BA80B6	0.75	2.3	0.75	2.3	0.75	2.3	0.75	2.3	0.75	2.3	0.75	2.3	0.010	17
KM2BA90LB6	1.10	2.9	1.10	2.9	1.10	2.9	1.10	2.9	1.10	2.9	1.10	2.9	0.020	25
KM2BA90LD6	1.50	4	1.50	4	1.50	4	1.50	4	1.50	4	1.50	4	0.025	29
KM2BA100L6	2.20	6.3	2.20	6.3	2.20	6.3	2.20	6.3	2.20	6.3	2.20	6.3	0.035	37
KM2BA112MB6	3.70	10.8	3.70	10.8	3.70	10.8	3.70	10.8	3.70	10.8	3.70	10.8	0.050	45
KM2BA132MC6	5.50	12.5	5.50	12.5	5.50	12.5	5.50	12.5	5.50	12.5	5.50	12.5	0.195	86
KM2BA132MC6	7.50	18	7.50	18	7.50	18	7.50	18	7.50	18	7.50	18	0.195	86
KHX+160MLD6	9.3	19	9.3	19	9.3	19	9.3	19	9.3	19	9.3	19	0.372	155
KHX+160MLE6	11	23	11	23	11	23	11	23	11	23	11	23	0.446	170
KHX+160MLE6	15	34.7	15	34.7	15	34.7	15	34.7	15	34.7	*	-	0.446	170
KHX+200MLB6	18.5	36	18.5	36	18.5	36	18.5	36	*	-	*	-	1.6	230
KHX+200MLC6	22	42	22	42	22	42	22	42	*	-	*	-	1.8	300

Note :-

- 1) Ratings marked as \* & 225 frame onwards can be offered against enquiry
- 2) Separate derations are required for different service factors for different cranes & ambient temperature
- 3) Amb deration chart:--

<b>Permissible Output</b>	<b>100%</b>	<b>95%</b>	<b>90%</b>
<b>Amb. Temp.</b>	<b>50°</b>	<b>55°</b>	<b>60°</b>



# Crane Duty Motors Chart

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32, NIT , INDUSTRIAL AREA  
FARIDABAD

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(For DOL Supply)

**Series Name-KHX+ & M2BA**  
**Enclosure-TEFC**  
**Protection/Cooling-IP55 / IC411**  
**Insulation class-F**  
**Temperature rise Class-B**

**Pole-8**

**415V±10%**  
**50Hz±5%**  
**Ambient : 50 deg**  
**Duty : S4 & S5 (equivalent)**

Frame	60 Starts				150 Starts				300 Starts				Motor GD Sq. Kgm.sq	Weight Kg
	25% OR 40 % CDF		60 % CDF		25% OR 40 % CDF		60 % CDF		25% OR 40 % CDF		60 % CDF			
	Kw	In (A)	Kw	In (A)	Kw	In (A)	Kw	In (A)	Kw	In (A)	Kw	In (A)		
KM2BA71A8	0.09	0.55	0.09	0.55	0.09	0.55	0.09	0.55	0.09	0.55	0.09	0.55	0.004	11
KM2BA71B8	0.12	0.7	0.12	0.7	0.12	0.7	0.12	0.7	0.12	0.7	0.12	0.7	0.004	12
KM2BA80A8	0.18	0.77	0.18	0.77	0.18	0.77	0.18	0.77	0.18	0.77	0.18	0.77	0.007	15
KM2BA80B8	0.25	0.88	0.25	0.88	0.25	0.88	0.25	0.88	0.25	0.88	0.25	0.88	0.010	17
KM2BA90L8	0.37	1.4	0.37	1.4	0.37	1.4	0.37	1.4	0.37	1.4	0.37	1.4	0.018	24
KM2BA90LB8	0.55	2	0.55	2	0.55	2	0.55	2	0.55	2	0.55	2	0.020	25
KM2BA90LD8	0.75	2.8	0.75	2.8	0.75	2.8	0.75	2.8	0.75	2.8	0.75	2.8	0.025	29
KM2BA100LB8	1.10	3.25	1.10	3.25	1.10	3.25	1.10	3.25	1.10	3.25	1.10	3.25	0.035	34
KM2BA100LC8	1.50	4.8	1.50	4.8	1.50	4.8	1.50	4.8	1.50	4.8	1.50	4.8	0.038	35
KM2BA112MB8	2.20	8	2.20	8	2.20	8	2.20	8	2.20	8	2.20	8	0.05	45
KM2BA132M8	3.70	11.5	3.70	11.5	3.70	11.5	3.70	11.5	3.70	11.5	3.70	11.5	0.165	70
KHX+160MLD8	5.5	12	5.5	12	5.5	12	5.5	12	5.5	12	5.5	12	0.372	155
KHX+160MLE8	7.5	16	7.5	16	7.5	16	7.5	16	7.5	16	7.5	16	0.446	170
KHX+160MLE8	9.3	19.8	9.3	19.8	9.3	19.8	9.3	19.8	9.3	19.8	9.3	19.8	0.446	170
KHX+180MLB8	11	23.5	11	23.5	11	23.5	11	23.5	11	23.5	10	22	0.72	200
KHX+200MLC8	15	28	15	28	15	28	15	28	*	-	*	-	2.21	250

Note :-

- 1) Ratings marked as \* & 225 frame onwards can be offered against enquiry
- 2) Separate derations are required for different service factors for different cranes & ambient temperature
- 3) Amb deration chart:--

<b>Permissible Output</b>	<b>100%</b>	<b>95%</b>	<b>90%</b>
<b>Amb. Temp.</b>	<b>50°</b>	<b>55°</b>	<b>60°</b>



# Crane Duty Motors Chart

LV MOTORS  
32, NIT , INDUSTRIAL AREA  
FARIDABAD

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(For VVVF Drive)

Series Name-KHX+ & M2BA  
Enclosure-TEFC  
Protection/Cooling-IP55 / IC411  
Insulation class-F  
Temperature rise Class-B

**Pole-4**

415V±10%  
50Hz±5%  
Ambient : 50 deg  
Duty : S4 & S5 (equivalent)

FRAME	MOTOR RATING KW	Current A	150 STARTS STOPS PER HOUR					300 STARTS STOPS PER HOUR					Motor GD <sup>2</sup> (Kg m <sup>2</sup> )	Weight (kg)		
			25 OR 40 % CDF	In(A)	60% CDF	In(A)	100% CDF	In(A)	25 OR 40 % CDF	In(A)	60 % CDF	In(A)			100% CDF	In(A)
KM2BA71A4	0.25	0.75	0.25	0.75	0.23	0.72	0.2	0.67	0.25	0.75	0.23	0.72	0.2	0.67	0.003	10
KM2BA71B4	0.37	0.9	0.37	0.9	0.35	0.9	0.3	0.85	0.37	0.9	0.35	0.9	0.3	0.85	0.004	11
KM2BA80A4	0.55	1.36	0.55	1.36	0.5	1.27	0.4	1.15	0.55	1.36	0.45	1.25	0.4	1.15	0.006	15
KM2BA80B4	0.75	1.9	0.8	2	0.75	1.9	0.6	1.75	0.75	1.9	0.7	1.8	0.6	1.75	0.008	16
KM2BA90S4	1.1	2.6	1.2	2.8	1.1	2.6	0.88	2.3	1.1	2.6	1	2.45	0.8	2.2	0.013	22
KM2BA90L4	1.5	3.4	1.6	3.6	1.5	3.4	1.2	2.95	1.5	3.4	1.4	2.3	1.1	2.8	0.018	25
KM2BA100LA4	2.2	4.6	2.4	5	2	4.3	1.7	3.8	2.2	4.6	2	4.3	1.6	2.5	0.035	34
KM2BA112M4	3.7	7.5	4	8	3.4	7	2.8	6.1	3.7	7.5	3.3	6.9	2.7	5.9	0.042	39
KM2BA132S4	5.5	11.1	6	12.1	5.5	11.1	4.2	9.8	5.5	11.1	5.3	11	4.1	9.7	0.105	60
KM2BA132M4	7.5	14.8	8	15.6	7.3	14.4	5.7	12	7.5	14.8	7.2	14.2	5.5	11.7	0.131	70
KHX+160MLB4	9.3	18.8	8.4	17.5	7.5	16	6.5	14.7	8.2	17.2	7.5	16	6.5	14.7	0.208	125
KHX+160MLD4	11	21.0	10	20	9.3	19	7.9	17	10	20	9.1	18	7.9	17	0.252	145
KHX+160MLE4	15	28.0	13.5	26	12.5	25	10.8	22	13.5	26	12.4	25	10.7	22	0.302	150
KHX+180MLB4	18.5	34.5	17	32	15.4	30	13	26	16.5	31	15.1	29	13	26	0.48	175
KHX+180MLC4	22	40.5	20	38	18.5	36	15.9	32	20	38	18.4	36	15.8	32	0.54	185
KHX+200MLC4	30	54.5	25	47	24.5	46	21	41	24.5	46	23.2	44	20.6	40	1.16	245

Note :-

- 1)Maximum permissible Motor KW has been calculated based on VVVF supply & duty cycles
- 2)Separate derations are required for different service factors for different cranes & ambient temperature
- 3)Speed range 10-100%
- 4)Amb deration chart:--

Permissible Output	100%	95%	90%
Amb. Temp.	50°	55°	60°



LV MOTORS  
32, NIT , INDUSTRIAL AREA  
FARIDABAD

# Crane Duty Motors Chart

(For VVVF Drive)

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Series Name-KHX+ & M2BA  
Enclosure-TEFC  
Protection/Cooling-IP55 / IC411  
Insulation class-F  
Temperature rise Class-B

**Pole-4**

415V±10%  
50Hz±5%  
Ambient :50 deg  
Duty : S4 & S5 (equivalent)

FRAME	MOTOR RATING KW	Current A	150 STARTS STOPS PER HOUR						300 STARTS STOPS PER HOUR						Motor GD <sup>2</sup> (Kg m <sup>2</sup> )	Weight (kg)
			25 OR 40 % CDF In(A)	60% CDF In(A)	100% CDF In(A)	25 OR 40 % CDF In(A)	60 % CDF In(A)	100% CDF In(A)								
KHX+225SMB4	37	67	32	58	29	53	25	47	29	53	27	50	24	45	1.4	310
KHX+225SMC4	45	81	39	71	36	67	31	59	36	67	34	64	30	57	1.52	340
KHX+250MB4	55	99	46	84	42	77	37	70	41	75	40	74	35	66	2.8	460
KHX+280SMB4	75	131	61	109	57	102	50	92	54	98	52	95	48	89	4.44	610
KHX+280SMC4	90	157	73	127	69	121	61	108	65	115	63	111	58	103	5.32	680
M2BA315SMA4	110	190	74	136	73	135	68	128	66	120	64	118	59	114	9.5	905
M2BA315SMB4	132	227	92	169	90	166	83	156	75	145	73	141	70	135	10.6	960
M2BA315MLA4	160	267	112	192	110	189	101	176	92	165	90	161	88	158	13.5	1110
M2BA315MLB4	187	307	129	222	127	219	117	206	106	190	104	186	100	179	15.6	1150
M2BA315MLC4	200	329	140	241	137	236	127	222	115	205	112	200	108	193	17	1260
M2BA355SMA4	250	416	168	290	167	288	156	271	136	243	135	241	130	232	26.5	1620
M2BA355MLA4	315	530	219	390	216	385	200	361	179	334	176	328	170	317	33	1870
M2BA355MLB4	355	585	243	419	239	413	223	391	197	355	193	348	185	333	40	2110
M2BA400LA4	500	795	299	505	296	500	293	495	235	419	232	414	230	410	56	3000
M2BA400LB4	560	880	335	549	330	541	328	538	263	450	258	441	255	436	59	3100

- Note :-
- 1)Maximum permissible Motor KW has been calculated based on VVVF supply & duty cycles
  - 2)Separate derations are required for different service factors for different cranes & ambient temperature
  - 3)Speed range 10-100%
  - 4)Amb deration chart:--

<b>Permissible Output</b>	<b>100%</b>	<b>95%</b>	<b>90%</b>
<b>Amb. Temp.</b>	<b>50°</b>	<b>55°</b>	<b>60°</b>



LV MOTORS  
32, NIT , INDUSTRIAL AREA  
FARIDABAD

## Crane Duty Motors Chart

(For VVVF Drive)

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Series Name-KHX+ & M2BA  
Enclosure-TEFC  
Protection/Cooling-IP55 / IC411  
Insulation class-F  
Temperature rise Class-B

**Pole-6**

415V±10%  
50Hz±5%  
Ambient : 50 deg  
Duty : S4 & S5 (equivalent)

FRAME	MOTOR RATING KW	Current A	150 STARTS STOPS PER HOUR						300 STARTS STOPS PER HOUR						Motor GD <sup>2</sup> (Kg m <sup>2</sup> )	Weight (kg)
			25 OR 40 % CDF	In(A)	60% CDF	In(A)	100% CDF	In(A)	25 OR 40 % CDF	In(A)	60 % CDF	In(A)	100% CDF	In(A)		
KM2BA71A6	0.18	0.6	0.18	0.6	0.18	0.58	0.6	0.58	0.18	0.6	0.18	0.6	0.15	0.58	0.004	10
KM2BA71B6	0.25	0.8	0.25	0.8	0.23	0.8	0.2	0.77	0.25	0.8	0.23	0.8	0.2	0.77	0.004	12
KM2BA80A6	0.37	1.1	0.37	1.1	0.35	1.1	0.3	1	0.37	1.1	0.35	1.1	0.3	1	0.007	15
KM2BA80B6	0.55	1.5	0.55	1.5	0.5	1.45	0.4	1.3	0.55	1.5	0.45	1.4	0.4	1.3	0.010	17
KM2BA90L6	0.75	2.2	0.8	2.3	0.75	2.2	0.6	2	0.75	2.2	0.7	2.15	0.6	2	0.018	25
KM2BA90LB6	1.1	2.9	1.2	3.1	1.1	2.9	0.88	2.6	1.1	2.9	0.9	2.6	0.8	2.5	0.020	25
KM2BA100L6	1.5	3.8	1.7	4.1	1.5	3.8	1.2	3.4	1.5	3.8	1.2	3.4	1.1	3.3	0.035	37
KM2BA112M6	2.2	5.2	2.4	5.6	2.2	5.2	1.7	4.4	2.2	5.2	2	4.85	1.6	4.3	0.046	40
KM2BA132MA6	3.7	8.95	4	9.4	3.7	8.95	2.8	7.8	3.7	8.95	3.5	8.65	2.7	7.7	0.133	69
KM2BA132MC6	5.5	12.5	6.2	13.7	5.2	12.2	4.2	10.9	5.5	12.5	5	11.8	4.1	10.7	0.195	86
KHX+160MLC6	7.5	15.5	8	16.4	6.9	14.6	5.5	12.5	6.3	13.7	6	13.2	5	11.9	0.326	145
KHX+160MLD6	9.3	19	9.7	19.8	9	18.7	6.9	15.3	7.5	16.1	7.2	15.6	6.2	14.2	0.372	155
KHX+160MLE6	11	23	11.8	24	10.8	23	8	18.5	9	20	8	18.5	6.6	17	0.446	170
KHX+180MLC6	15	30	15	30	13.3	27	11	23.3	12.2	25	12	25	10	22	0.68	185
KHX+200MLB6	18.5	36	18	35	16.5	33	13.5	29	15	22	14.2	30	12.3	27	1.6	230
KHX+200MLC6	22	42	21	40	20	39	16	34	17.5	36	17	35	14.5	32	1.8	300

Note :-

- 1)Maximum permissible Motor KW has been calculated based on VVVF supply & duty cycles
- 2)Separate derations are required for different service factors for different cranes & ambient temperature
- 3)Speed range 10-100%
- 4)Amb deration chart:--

Permissible Output	100%	95%	90%
Amb. Temp.	50°	55°	60°



LV MOTORS  
32, NIT , INDUSTRIAL AREA  
FARIDABAD

# Crane Duty Motors Chart

(For VVVF Drive)

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Series Name-KHX+ & M2BA  
Enclosure-TEFC  
Protection/Cooling-IP55 / IC411  
Insulation class-F  
Temperature rise Class-B

**Pole-6**

415V±10%  
50Hz±5%  
Ambient :50 deg  
Duty : S4 & S5 (equivalent)

FRAME	MOTOR RATING KW	Current A	150 STARTS STOPS PER HOUR						300 STARTS STOPS PER HOUR						Motor GD <sup>2</sup> (Kg m <sup>2</sup> )	Weight (kg)
			25 OR 40 % CDF	In(A)	60% CDF	In(A)	100% CDF	In(A)	25 OR 40 % CDF	In(A)	60 % CDF	In(A)	100% CDF	In(A)		
KHX+225SMC6	30	55.5	28	53	25	47	21	41	22	42	21	41	20	40	2.98	320
KHX+250MB6	37	66	35	63	31	56	27	50	28	52	27	50	25	47	4.8	420
KHX+280SMB6	45	79.5	42	74	39	69	35	63	32	58	30	54	29	53	7.2	590
KHX+280SMC6	55	97	53	94	49	87	43	77	37	68	36	67	35	65	8.1	600
M2BA315SMA6	75	132	72	127	69	122	60	109	48	91	47	89	46	88	14.2	860
M2BA315SMB6	90	158	85	150	78	141	70	128	70	128	67	124	62	117	16.7	930
M2BA315SMC6	110	193	100	179	94	170	84	155	79	146	77	144	73	138	20	1005
M2BA315MLC6	132	228	110	194	105	186	95	173	85	158	83	155	81	153	28.2	1240
M2BA355SMA6	160	275	134	240	130	235	120	220	94	185	93	184	91	180	42	1595
M2BA355SMB6	200	343	165	295	160	288	150	274	117	229	114	225	112	222	50.5	1800
M2BA355MLA6	250	428	210	375	200	360	180	333	164	308	163	306	156	298	55	1940
M2BA355MLB6	315	550	270	480	250	450	230	427	215	406	210	400	200	387	60.2	2040
M2BA400LA6	355	640	300	550	285	530	240	470	220	445	216	440	210	433	66	2750
M2BA400LB6	400	740	340	655	320	628	300	603	242	534	237	528	216	510	77	2950

- Note :-
- 1)Maximum permissible Motor KW has been calculated based on VVVF supply & duty cycles
  - 2)Separate derations are required for different service factors for different cranes & ambient temperature
  - 3)Speed range 10-100%
  - 4)Amb deration chart:--

<b>Permissible Output</b>	<b>100%</b>	<b>95%</b>	<b>90%</b>
<b>Amb. Temp.</b>	<b>50°</b>	<b>55°</b>	<b>60°</b>



LV MOTORS  
32, NIT , INDUSTRIAL AREA  
FARIDABAD

# Crane Duty Motors Chart

(For VVVF Drive)

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Date-09.11.2009

Series Name-KHX+ & M2BA  
Enclosure-TEFC  
Protection/Cooling-IP55 / IC411  
Insulation class-F  
Temperature rise Class-B

**Pole-8**

415V±10%  
50Hz±5%  
Ambient : 50 deg  
Duty : S4 & S5 (equivalent)

FRAME	MOTOR RATING KW	Current A	150 STARTS STOPS PER HOUR						300 STARTS STOPS PER HOUR						Motor GD <sup>2</sup> (Kg m <sup>2</sup> )	Weight (kg)
			25 OR 40 % CDF	In(A)	60% CDF	In(A)	100% CDF	In(A)	25 OR 40 % CDF	In(A)	60 % CDF	In(A)	100% CDF	In(A)		
KM2BA71A8	0.09	0.55	0.09	0.55	0.09	0.55	0.07	0.54	0.09	0.55	0.09	0.55	0.07	0.54	0.004	11
KM2BA71B8	0.12	0.7	0.12	0.7	0.12	0.7	0.09	0.7	0.12	0.7	0.12	0.7	0.09	0.7	0.004	12
KM2BA80A8	0.18	0.77	0.18	0.77	0.18	0.77	0.14	0.71	0.18	0.77	0.18	0.77	0.14	0.71	0.007	15
KM2BA80B8	0.25	0.88	0.25	0.88	0.23	0.88	0.2	0.8	0.25	0.88	0.23	0.88	0.2	0.8	0.010	17
KM2BA90L8	0.37	1.4	0.37	1.4	0.35	1.4	0.3	1.35	0.37	1.4	0.35	1.4	0.3	1.35	0.018	24
KM2BA90LB8	0.55	2	0.55	2	0.5	1.9	0.4	1.8	0.55	2	0.45	1.85	0.4	1.8	0.020	25
KM2BA100LA8	0.75	2.5	0.8	2.6	0.75	2.5	0.6	2.3	0.75	2.5	0.7	2.4	0.6	2.3	0.029	30
KM2BA100LB8	1.1	3.25	1.2	3.4	1.1	3.25	0.88	3	1.1	3.25	0.9	3	0.8	2.9	0.035	34
KM2BA112MA8	1.5	3.9	1.7	4.35	1.5	3.9	1.2	3.4	1.5	3.9	1.2	3.4	1.1	3.2	0.047	40
KM2BA132S8	2.2	6.2	2.4	6.5	2.2	6.2	1.7	5.7	2.2	6.2	2	6	1.6	5.5	0.133	70
KHX+160MLB8	3.7	8	4	8.6	3.7	8	2.8	6.6	2.9	6.8	2.8	6.6	2.5	6.2	0.288	125
KHX+160MLD8	5.5	12	6	12.8	5.1	11.3	4.1	10	4.5	10.3	4.4	10.3	3.7	9.4	0.372	155
KHX+160MLE8	7.5	16	8	16.8	6.8	14.7	5.5	12.8	6.2	13.8	6.1	13.7	5	12.1	0.446	170
KHX+180MLA8	9.3	20	9.6	21	8.9	19.5	6.8	16.5	7.5	17.5	7.4	17.4	6.2	16	0.64	160
KHX+180MLB8	11	23.5	11	23.5	10.5	23	8	18.7	9	20.4	8.1	18.7	6.6	17	0.72	170
KHX+200MLC8	15	31.5	15	31.5	13	28	11	24.3	12	26.1	10	22.5	9	21	1.98	240

- Note :-
- 1)Maximum permissible Motor KW has been calculated based on VVVF supply & duty cycles
  - 2)Separate derations are required for different service factors for different cranes & ambient temperature
  - 3)Speed range 10-100%
  - 4)Amb deration chart:--

Permissible Output	100%	95%	90%
Amb. Temp.	50°	55°	60°





LV MOTORS  
32, NIT , INDUSTRIAL AREA  
FARIDABAD

# Crane Duty Motors Chart

(For VVVF Drive)

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Date-09.11.2009

Series Name-KHX+ & M2BA  
Enclosure-TEFC  
Protection/Cooling-IP55 / IC411  
Insulation class-F  
Temperature rise Class-B

**Pole-8**

415V±10%  
50Hz±5%  
Ambient :50 deg  
Duty : S4 & S5 (equivalent)

FRAME	MOTOR RATING KW	Current A	150 STARTS STOPS PER HOUR						300 STARTS STOPS PER HOUR						Motor GD <sup>2</sup> (Kg m <sup>2</sup> )	Weight (kg)
			25 OR 40 % CDF	In(A)	60% CDF	In(A)	100% CDF	In(A)	25 OR 40 % CDF	In(A)	60 % CDF	In(A)	100% CDF	In(A)		
KHX+225SMB8	18.5	38.5	17	37	16	35	15	33	14	32	13.8	32	12.5	30	3.32	320
KHX+225SMC8	22	45.5	21	43	19.5	41	17	37	17	37	16.5	36	15.5	35	3.5	340
KHX+250MB8	30	60	28	55	26	52	23	48	23	48	22	46	21	44	4.54	520
KHX+280SMB8	37	73.5	34	69	31.4	65	28	59	28	59	26.5	57	24.5	54	7.64	590
KHX+280SMC8	45	89	42	85	39	80	34	72	35	73	34	72	31	68	7.75	600
M2BA315SMA8	55	101	47	92	44	87	40	81	39	79	37	76	35	74	13	830
M2BA315SMB8	75	135	62	118	60	115	56	108	53	105	51	103	46	95	18.8	975
M2BA315SMC8	90	162	80	150	77	145	65	127	70	135	67	129	61	122	22	1055
M2BA315MLB8	110	197	95	177	90	170	82	158	80	155	78	152	71	142	23.6	1125
M2BA355SMA8	132	239	110	210	105	203	96	188	89	178	88	176	84	173	42	1590
M2BA355MLA8	160	289	132	255	125	244	115	230	106	218	105	214	100	210	55	1945
M2BA355MLB8	200	360	165	340	155	326	142	310	139	306	136	303	129	296	64.2	2090
M2BA400LA8	315	600	260	512	240	483	225	460	212	447	208	443	199	432	68.8	2700
M2BA400LB8	355	670	310	605	290	580	250	528	262	536	255	532	250	528	80	2950

- Note :-
- 1)Maximum permissible Motor KW has been calculated based on VVVF supply & duty cycles
  - 2)Separate derations are required for different service factors for different cranes & ambient temperature
  - 3)Speed range 10-100%
  - 4)Amb deration chart:--

Permissible Output	100%	95%	90%
Amb. Temp.	50°	55°	60°

Revised rating chart - Doc no-PC/CD-002/Rev-B