

LEESON CAST IRON MOTORS

Data Sheet

CSA 390 / EPACT

Three Phase Motors

Product Type:

RIGID

Volts: 575 Hertz: 60 Mounting: RIGID Enclosure: TEFC Type: TFMax. Amb: 40 Insul Class: F5 Design: B SF: 1.15 Duty: CONT Poles: 2

Cat. No.	HP	RPM	Frame	FLA	EFF FL	EFF* 3/4 FL	FL PF	Code	Brg PE	Brg OPE	Wgt	Name Plate	BDT% *	LRT% *	LRA @575V
G151711	1.5	3450	143T	1.7	82.5	82.5	80	L	6205	6205	45	92939	400	355	14.4
G151713	2	3450	145T	2	84.0	84.0	82	L	6205	6205	48.5	92939	405	395	19.5
	3	3520	182T		85.5		89.5	J	6306	6306	95	80404			
	5	3510	184T	4.8	87.5	88.0	89.7	J	6306	6306	100	80404	275.0	180.0	36
G150196	7.5	3510	213T	7.2	88.5	89.3	88.7	H	6308	6306	150	80404	260.0	160.0	46
G150197	10	3510	215T	9.4	89.5	90.4	88.8	H	6308	6306	167	80404	270.0	170.0	64
G150198	15	3520	254T	14	90.2	90.5	89.0	G	6309	6308	260	80371	280.0	210.0	93
G150199	20	3540	256T	18.4	90.2	91.0	89.7	G	6309	6308	296	80371	270.0	210.0	123
G150224	25	3545	284TS	23.3	91.0	91.0	88.3	G	6311	6309	349	80371	275.0	190.0	146
G150228	30	3540	286TS	27.7	91.0	91.8	89.3	G	6311	6309	375	80371	260.0	190.0	172
G150232	40	3550	324TS	37.2	91.7	91.3	87.8	G	6312	6312	496	80371	245.0	175.0	236
G150236	50	3540	326TS	44.8	92.4	92.5	90.4	G	6312	6312	531	80371	280.0	190.0	292
G150241	60	3570	364TS	54.8	93.0	92.6	88.2	G	6313	6313	695	80371	250	200	380
G150246	75	3560	365TS	68.8	93.0	93.0	87.8	G	6313	6313	HEBEI DATA	80371	280	245	*502
G150254	100	3565	405TS	88	93.6	93.7	90.2	G	6316	6314	985	80371	265.0	220.0	600

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Three Phase Motors

Product Type:

RIGID

Volts: 575 Hertz: 60 Mounting: RIGID Enclosure: TEFC Type: TFMax. Amb: 40 Insul Class: F5 Design: B SF: 1.15 Duty: CONT Poles: 4

Cat. No.	HP	RPM	Frame	FLA	EFF FL	EFF* 3/4 FL	FL PF	Code	Brg PE	Brg OPE	Wgt	Name Plate	BDT% *	LRT% *	LRA @575V
G151709	1	1745	143T	1.4	84.5	82.5	65	M	6205	6205	49	92938	450	420	10.3
G151712	1.5	1735	145T	1.8	85.5	85.5	72.5	L	6205	6205	53	92938	400	380	13.5
G151714	2	1725	145T	2.3	84	85.5	75.5	K	6205	6205	56	92938	370	375	17.5
G151321	3	1760	182T	3.4	87.5	87.5	76.0	K	6306	6306	94	80404	330.0	215.0	24
G151323	5	1750	184T	5.5	87.5	87.9	77.7	J	6306	6306	101	80404	280.0	200.0	36
G150207	7.5	1760	213T	7.7	89.5	90.0	82.0	H	6308	6306	153	80404	310.0	190.0	51
G150212	10	1760	215T	10.1	89.5	91.0	83.0	H	6308	6306	176	80404	310.0	190.0	65
G150116	15	1765	254T	14.7	91.0	91.5	84.0	G	6309	6308	277	80371	285.0	260.0	92
G150117	20	1755	256T	19.3	91.0	91.7	85.2	G	6309	6308	321	80371	280.0	260.0	126
G150118	25	1775	284T	23.6	92.4	92.4	86.0	G	6311	6309	370	80371	310.0	210.0	157
G150119	30	1775	286T	28.0	92.4	92.5	87.0	G	6311	6309	428	80371	300.0	205.0	188
G150120	40	1775	324T	38.0	93.0	93.2	84.7	G	6312	6312	528	80371	245.0	170.0	220
G150121	50	1770	326T	47.1	93.0	93.2	85.5	G	6312	6312	561	80371	245.0	170.0	288
G150239	60	1780	364T	55.2	93.6	93.8	86.5	G	6313	6313	687	80371	210.0	155.0	344
G150244	75	1780	365T	69.2	94.1	94.2	86.3	G	6313	6313	723	80371	220.0	180.0	444
G150253	100	1785	405T	91.6	94.5	94.5	86.5	G	6316	6314	1050	80371	210.0	155.0	568
G150257	125	1790	444T	111	94.5	94.5	89.0	G	6318	6317		80371	275.0	170.0	680
G150603	200	1790	447T	178.5	95.0	95.0	88.5	G	6318	6317		80371	280.0	180.0	1128

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Three Phase Motors

Product Type: RIGID

Volts: 208-230/460 Hertz: 60 Mounting: RIGID Enclosure: TEFC Type: TF

Max. Amb: 40 Insul Class: F5 Design: B SF: 1.25 Duty: CONT Poles: 2

Cat. No.	HP	RPM	Frame	VOLTS	HZ	FLA	EFF FL	EFF* 3/4 FL	FL PF	Code	Brg PE	Brg OPE	Wgt	Name Plate	BDT% *	LRT% *	LRA @230V
G151697	1	3450	143T	208-230/460	60												
	0.75		143T	190/380	50												
G151698	1.5	3450	143T	208-230/460	60	4.5-4.2/2.1	82.5	82.5	80	L	6205	6205		80306	400	355	33.6
	1	2875	143T	190/380	50	3.6/1.8	80.0	80.0	77	N					455	410	30
G151704	2	3450	145T	208-230/460	60	5.5-5.0/2.5	84.0	84.0	82	L	6205	6205		80306	405	395	48.8
	1.5	2875	145T	190/380	50	4.6/2.3	82.5	82.5	81	L					415	405	36.5
G151563	3	3520	182T	208-230/460	60	8.2-7.4/3.7	85.5	84	89.5	J	6306	6306	90	80306	310	200	57.2
	2	2935	182T	190/380	50	6.2/3.1	82.5	82.5	85.5	K					370	260	44
G150299	5	3510	184T	208-230/460	60	13.0-12.0/6.0	87.5	88.0	89.7	J	6306	6306	100	80306	275	180	90
	3	2490	184T	190/380	50	9/4.5	86.5	85.5	85.5	L					360	260	84
G150158	7.5	3510	213T	208-230/460	60	19.4-17.8/8.9	88.5	89.3	88.7	H	6308	6306	150	80306	260	160	115
	5	2930	213T	190/380	50	14.4/7.2	88.5	88.5	88.0	J					300	210	110
G150159	10	3510	215T	208-230/460	60	25.9-23.6/11.8	89.5	90.4	88.8	H	6308	6306	167	80306	270	170	160
	7.5	2920	215T	190/380	50	21.4/10.7	88.5	89.5	89.0	J					280	200	152
G151317	15	3510	215T	208-230/460	60	38.5-35/17.5	90.2	91.0	89.0	G	6308	6306	168	80306	270	195	235
	10	2930	215T	190/380	50	29/14.5	90.2	91.0	86.5	J					290	260	224
G150062	15	3545	254T	208-230/460	60	39-35/17.5	90.2	90.2	87.0	G	6309	6308	266	80307	260	225	220
	10	2960	254T	190/380	50	28.2/14.1	91.0	90.2	88.0	H					300	300	208
G150033	20	3545	256T	208-230/460	60	51.0-47.0/23.5	90.2	90.2	88.0	G	6309	6308		80307	260	230	300
	15	2950	256T	190/380	50	42.0/21.0	90.2	90.2	88.0						275	215	312
G151318	25	3530	256T	208-230/460	60	64-56.4/28.2	91.0	91.5	91.2	G	6309	6308	307	80307	250	190	350
	20	2930	256T	190/380	50	54.8/27.4	90.2	91.7	91.0	H					250	210	336
G150035	25	3545	284TS	208-230/460	60	64-58.2/29.1	91.0	91.0	88.3	G	6311	6309	349	80307	275	190	365
	20	2945	284TS	190/380	50	55.2/27.6	91.0	91.0	90.3	G					275	215	290
G150037	30	3540	286TS	208-230/460	60	76.4-69.2/34.6	91.0	91.8	89.3	G	6311	6309	375	80307	260	190	430
	25	2940	286TS	190/380	50	69/34.5	91.0	91.0	90.8	F					250	210	340
G150039	40	3550	324TS	208-230/460	60	104-93/46.5	91.7	91.3	87.8	G	6312	6312	496	80307	245	175	590
	30	2955	324TS	190/380	50	84.4/42.2	91.0	90.2	88.4	G					260	225	455
G150041	50	3540	326TS	208-230/460	60	123-112/56	92.4	92.5	90.4	G	6312	6312	531	80307	280	190	730
	40	2940	326TS	190/380	50	109/54.5	90.2	90.2	91.8	G					280	220	290
G150043	60	3570	364TS	208-230/460	60	152-137/68.5	93	93	89	G	6313	6313	722	80307	225	200	880
	50	2670	364TS	190/380	50	133/66.5	92.4	92.4	92	F					245	250	700
G150045	75	3560	365TS	208-230/460	60	188-172/86	93.0	93.0	87.8	G	6313	6313	HEBEI DATA	80307	280	245	*1254
	60	2975	365TS	190/380	50	162/81	93.0	92.4	90.3	G					280	280	940
G150160	100	3565	405TS	208-230/460	60	242-220/110	93.6	93.7	90.2	G	6316	6314	985	80307	265	220	1500
	75	2971	405TS	190/380	50	199/99.5	93.6	93.6	91.1	H					380	270	1195

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Three Phase Motors

Product Type:

RIGID

Volts: 208-230/460 Hertz: 60 Mounting: RIGID Enclosure: TEFC Type: TFMax. Amb: 40 Insl. Class: F5 Design: B SF: 1.25 Duty: CONT Poles: 4 Type: TF

Cat. No.	HP	RPM	Frame	VOLTS	HZ	FLA	EFF FL	EFF* 3/4 FL	FL PF	Code	Brg PE	Brg OPE	Wgt	Name Plate	BDT% *	LRT% *	LRA @230V
G151696	1	1745	143T	208-230/460	60	4.0-3.6/1.8	84	82.5	65	M	6205	6205	-	80306	450	420	25.8
	0.75	1455	143T	190/380	50	3.0/1.5	82.5	82.5	65	L							
G151702	1.5	1735	145T	208-230/460	60	4.9-4.4/2.2	85.5	85.5	72.5	K	6205	6205	-	80306	400	380	33.8
	1	1445	145T	190/380	50	3.6/1.8	84	84	70	N							
G151703	2	1725	145T	208-230/460	60	6.4-5.8/2.9	84	85.5	75.5	K	6205	6205	-	80306	370	375	43.6
	1.5	1435	145T	190/380	50	4.8/2.4	84	84	71	J							
G151320	3	1760	182T	208-230/460	60	8.6-8.5/4.25	87.5	87.5	76.0	K	6306	6306	94	80306	330.0	215.0	60
	2	1465	182T	190/380	50	7.5/3.75	86.5	86.0	71.0	L					390.0	275.0	56
G151322	5	1750	184T	208-230/460	60	14.2-13.8/6.9	87.5	87.9	77.7	J	6306	6306	101	80306	280.0	200.0	90
	3	1465		190/380	50	11.2/5.6	86.5	86.5	70.0	L					370.0	280.0	84
G150157	7.5	1760	213T	208-230/460	60	20.4-19.2/9.6	89.5	90.0	82.0	H	6308	6306	153	80306	310.0	190.0	127
	5	1470	213T	190/380	50	16.0/8.0	89.5	89.5	79.0	J					350.0	250.0	120
G150140	10	1760	215T	208-230/460	60	26.7-25.2/12.6	89.5	91.0	83.0	H	6308	6306	176	80306	310.0	190.0	162
	7.5	1465	215T	190/380	50	23.2/11.6	89.5	90.2	82.0	H					315.0	220.0	154
G150066	15	1765	254T	208-230/460	60	39.2-36.6/18.3	91.0	91.5	84.0	G	6309	6308	277	80307	285.0	260.0	231
	10	1470	254T	190/380	50	30.4/15.2	91.0	91.0	82.0	J					330.0	330.0	218
G150007	20	1755	256T	208-230/460	60	52.0-48.2/24.1	91.0	91.7	85.2	G	6309	6308	321	80307	280.0	260.0	290
G150011	15	1460	256T	190/380	50	44.2/22.1	90.2	90.2	85.0	G					290.0	290.0	273
	25	1775	284T	208-230/460	60	63.4-58.8/29.4	92.4	92.4	86.0	G	6311	6309	370	80307	310.0	210.0	390
	20	1475	284T	190/380	50	57/28.5	92.4	92.4	86.1	G					310.0	240.0	645
G150015	30	1775	286T	208-230/460	60	73.5-69.8/34.9	92.4	92.5	87.0	G	6311	6309	428	80307	300.0	205.0	470
	25	1475	286T	190/380	50	70.0/35.0	92.4	92.4	87.3	G					285.0	225.0	375
G150019	40	1775	324T	208-230/460	60	104-95.2/47.6	93.0	93.2	84.7	G	6312	6312	528	80307	245.0	170.0	550
	30	1475	324T	190/380	50	88.0/44.0	92.4	93.0	83.3	G					260.0	210.0	440
G150023	50	1770	326T	208-230/460	60	128-117.8/58.9	93.0	93.2	85.5	G	6312	6312	561	80307	245.0	170.0	720
	40	1470	326T	190/380	50	115/57.5	91.7	92.4	85.8	G					245.0	195.0	575
G150027	60	1780	364T	208-230/460	60	153-138/69	93.6	93.8	86.5	G	6313	6313	687	80307	210.0	155.0	860
	50	1480	364T	190/380	50	141/70.5	92.4	93.0	86.8	G					200.0	170.0	690
G150031	75	1780	365T	208-230/460	60	186.6-173/86.5	94.1	94.2	85.5	G	6313	6313		80307	215.0	180.0	1080
	60	1480	365T	190/380	50	169/84.5	93.0	93.6	86.3	F					220.0	205.0	885
G150087	100	1785	405T	208-230/460	60	250-229/114.5	94.5	94.6	86.5	G	6316	6314	1050	80307	210.0	155.0	1420
	75	1485	405T	190/380	50	209/104.5	93.6	93.6	86.6	G					225.0	195.0	1145

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Three Phase Motors

Product Type:

RIGID

Volts: 208-230/460 Hertz: 60 Mounting: RIGID Enclosure: TEFC Type: TFMax. Amb: 40 Insul Class: F5 Design: B SF: 1.25 Duty: CONT Poles: 6

Cat. No.	HP	RPM	Frame	VOLTS	HZ	FLA	EFF FL	EFF* 3/4 FL	FL PF	Code	Brg PE	Brg OPE	Wgt	Name Plate	BDT% *	LRT% *	LRA @230V
G151699	1	1155	145T	208-230/460	60	3.4-3.0/1.5	80.0	80.0	74	J	6205	6205	58	80306	315	265	18.9
	0.75	960	145T	190/380	50	2.8/1.4	80.0	80.0	71	K					330	315	
G151580	1.5	1175	182T	208-230/460	60	5.1-5.0/2.5	86.5	85.5	64.5	J	6306	6306	90	80306	300	195	27.6
	1	965	182T	190/380	50	4.4/2.2	84	84	71.5	E					365	240	21.6
G151582	2	1175	184T	208-230/460	60	6.7-6.6/3.3	86.5	85.5	64.5	J	6306	6306	95	80306	305	205	38
	1.5	965	184T	190/380	50	6.2/3.1	85.5	84	63.5	J					325	220	29.5
G150122	7.5	1175	254T	208-230/460	60	21.0-20.0/10.0	89.5	90.0	78.5	H	6309	6308	250	80307	260	210	127
Design A	5	980	254T	190/380	50	17/8.5	89.5	89.5	75.0	J					300	270	120
G150123	10	1175	256T	208-230/460	60	28.3-26.2/13.1	89.5	90.0	80.0	H	6309	6308	277	80307	250	215	160
Design A	7.5	980	256T	190/380	50	24/12	88.5	89.5	79.5	H					260	245	150
G150068	15	1180	284T	208-230/460	60	44.7-40.4/20.2	90.2	90.0	77.1	G	6311	6309	286*	80307	280	195	235
	10	985	284T	190/380	50	34/17	89.5	90.2	74.0	J					175	140	112
G150001	20	1180	286T	208-230/460	60	58.2-52.6/26.3	90.2	90.4	78.9	G	6311	6309	381*	80307	290	195	315
	15	980	286T	190/380	50	49/24.5	89.5	89.5	77.9	H					310	235	250
G150003	25	1185	324T	208-230/460	60	70-64.8/32.4	91.7	92.0	78.5	G	6312	6312	494	80307	290	230	395
	20	985	324T	190/380	50	63/31.5	91.7	91.7	78.2	G					290	260	310
G150005	30	1180	326T	208-230/460	60	81-77/38.5	91.7	91.7	79.5	G	6312	6312	528	80307	285	210	475
	25	980	326T	190/380	50	77.5/38.75	91.0	91.0	80.2	G					270	225	375
G150096	40	1185	364T	208-230/460	60	111.-101.6/50.8	93.0	93.3	79.5	G	6313	6313	638*	80307	215	180	618
	30	985	364T	190/380	50	85/42.5	91.7	92.4	86.8	F					225	190	405
G150097	50	1185	365T	208-230/460	60	136-123/61.5	93.0	93.0	82.0	G	6313	6313	686	80307	250	170	740
	40	985	365T	190/380	50	118/59.0	91.0	91.0	83.5	G					250	190	6
G150098	60	1185	404T	208-230/460	60	156-145/72.5	93.6	93.4	82.8	G	6316	6314	888	80307	250	220	920
	50	985	404T	190/380	50	146/73	93.0	93.0	83.2	G					240	240	725
G150099	75	1185	405T	208-230/460	60	195-179/89.5	93.6	93.6	83.7	G	6316	6314	973	80307	260	240	1170
	60	985	405T	190/380	50	168/84	93.6	93.6	86.6	G					260.0	270.0	925

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Three Phase Motors

Product Type:

RIGID

Volts: 208-230/46C Hertz: 60 Mounting: RIGID Enclosure: ODP Type: TF

Max. Amb: 40 Insul Class: F5 Design: B SF: 1.25 Duty: CONT Poles: 4

Cat. No.	HP	RPM	Frame	VOLTS	HZ	FLA	EFF FL	EFF* 3/4 FL	FL PF	Design	Code	Brg PE	Brg OPE	Wgt	Name Plate	BDT% *	LRT% *	LRA @230V
G151443	5	1750	184T	208-230/460	60	14.1-13.7/6.85	87.5	88.0	78.1		J	6308	6208	102	080306	300	195	86
	3	1570	184T	190/380	50	11/5.5	86.5	86.5	71	A	K					390	280	80
G150142	7.5	1765	213T	208-230/460	60	20.7-19.6/9.8	88.5	88.7	80.6		H	6308	6208	147	080306	310	200	127
	5	1470	213T	190/380	50	16.6/8.3	88.5	88.5	77.0	A	K					375	265	126
G150144	10	1765	215T	208-230/460	60	26.4-25.0/12.5	89.5	90.0	82.6		H	6308	6208	168	080306	300	200	162
	7.5	1470	215T	190/380	50	23/11.5	90.2	90.2	81.6	A	J					310	240	168
G150065	15	1765	254T	208-230/460	60	40.5-37.6/18.8	91.0	91.3	82.0		G	6309	6208	265	080307	300	260	232
	10	1475	254T	190/380	50	31/15.5	91.0	91.0	80.0	A	J					350	345	236
G150006	20	1765	256T	208-230/460	60	52.7-48.0/24	91.7	91.4	85.0		G	6309	6208	307	080307	280	260	290
	15	1470	256T	190/380	50	44.4/22.2	91.0	91.7	84.0	B	H					290	290	304
G150009	25	1775	284T	208-230/460	60	64.0-59.6/29.8	91.7	92.0	85.5		G	6312	6211	388	080307	280	180	365
	20	1480	284T	190/380	50	56.6/28.3	92.4	92.4	86.5	B	G					280	220	362
G150013	30	1775	286T	208-230/460	60	77-72/36	92.4	92.4	84.4		G	6312	6311	434	080307	275	185	435
	25	1475	286T	190/380	50	72.0/36.0	91.7	91.7	85.1	B	G					260	205	360
G150017	40	1775	324T	208-230/460	60	105-96/48	93.0	93.0	83.9		G	6312	6312	528	080307	250	160	565
	30	1480	324T	190/380	50	87.0/43.5	93.0	93.0	83.6	B	G					260	200	450
G150021	50	1780	326T	208-230/460	60	129.5-120/60	93.0	93.2	83.9		G	6312	6312	612	080307	245	170	680
	40	1480	326T	190/380	50	115/57.5	93.0	93.0	84.3	B	F					250	200	540
G150025	60	1780	364T	208-230/460	60	154-141/70.5	93.6	93.8	85.3		G	6314	6314	715	080307	210	145	870
	50	1480	364T	190/380	50	142/71.0	92.4	93.6	86.3	B	F					200	160	700
G150029	75	1780	365T	208-230/460	60	191-177/88.5	94.1	94.5	83.8		G	6314	6314	765	080307	215	160	1055
	60	1480	365T	190/380	50	168/84.0	93.6	94.5	86.3	B	F					215	190	810
G150152	100	1780	404T	208-230/460	60	252-234/117	94.1	94.5	84.9		G	6316	6314	988	080307	235.0	155.0	1436
	75	1485	404T	190/380	50	206/103	94.5	94.5	87.4	B	G					250.0	200.0	1150
G150155	125	1780	405T	208-230/460	60	280/140	94.5	94.6	88.5		G	6316	6314	1083	080307	270.0	170.0	1910
	100	1480	405T	190/380	50	271/135.5	94.1	94.5	88.6	B	G					260.0	150.0	1495
MOTORS WITH SCREENS																		
G151540	15	1765	254T	208-230/460	60	40.5-37.6/18.8	91.0	91.3	82.0		G	6309	6208	265	080307	300	260	232
	10	1475	255T	190/380	50	31/15.5	91.0	91.0	80.0	A	J					350	345	236
G151541	20	1765	256T	208-230/460	60	52.7-48.0/24	91.7	91.4	85.0		G	6309	6208	307	080307	280	260	290
	15	1470	256T	190/380	50	44.4/22.2	91.0	91.7	84.0	B	H					290	290	304
G151542	30	1775	286T	208-230/460	60	77-72/36	92.4	92.4	84.4		G	6312	6311	434	080307	275	185	435
	20	1475	286T	190/380	50	72.0/36.0	91.7	91.7	85.1	B	G					260.0	205.0	360