

BR1 Series Generator

Standard Features

- Comply with the most common standard in terms of GB755, IEC60034, BS5000, VDE0530, CSAC22.2-100
- Single or double bearings are available, options for all kinds of adaptors and disc plates
- 12-end reconnectable winding terminals to get different voltages
- Standard "H" insulation class
- Convenient installation and maintenance for lead-end rotated diodes and adaptor connected bolts
- Standard sealed maintenance - free bearings
- Standard IP23 protection, optional serve environment protection
- Optional auxiliary winding in excitation system
- Optional transformer-controlled system to increase motor starting capability

Options

- Winding RTD
- Winding protection thermistor and relay
- Anti-condensation heater
- Air filter
- Droop CT

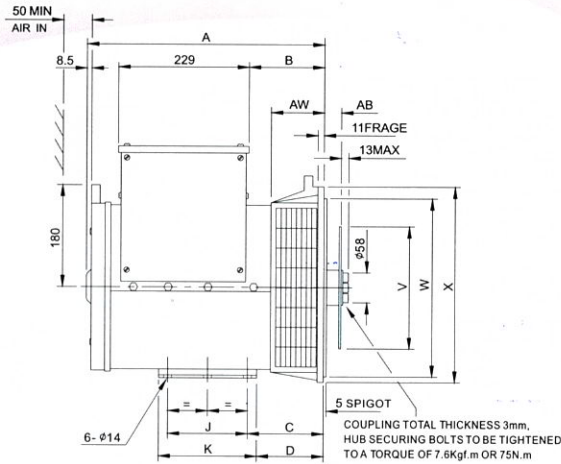
BR1 3-PHASE INDUSTRIAL RATINGS

		50 Hz (1500PM)			60 Hz 1800PM)					50 Hz (1500PM)			60 Hz (1800PM)		
VOLTAGE		CLASS "H" TEMPERATURE - RISE (125°C)			CLASS "H" TEMPERATURE - RISE (125°C)			VOLTAGE		CLASS "H" TEMPERATURE - RISE (125°C)			CLASS "H" TEMPERATURE - RISE (125°C)		
STAR-SERIES		380	400	415	440	460	480	STAR-SERIES		380	400	415	440	460	480
STAR-PARALLEL		190	200	208	220	230	240	STAR-PARALLEL		190	200	208	220	230	240
DELTA-SERIES		220	230	240	254	266	277	DELTA-SERIES		220	230	240	254	266	277
BR044D	KVA	8.1	8.1	8.1	10.2	10.2	10.2	BR144F	KVA	27.5	27.5	27.5	34.4	34.4	35
	KW	6.5	6.5	6.5	8	8	8		KW	22	22	22	27.5	27.5	28
	EFFICIENCY	75.6	76.2	76.6	76.3	76.9	77.4		EFFICIENCY	85.7	86.2	86.5	85.9	86.4	86.7
BR044E	KVA	11	11	11	13.8	13.8	13.8	BR144G	KVA	31.3	31.3	31.3	37.5	37.5	37.5
	KW	8.8	8.8	8.8	11	11	11		KW	25	25	25	30	30	30
	EFFICIENCY	78.8	79.4	79.8	79.4	80	80.5		EFFICIENCY	86.6	87	87.2	87	87.3	87.6
BR044F	KVA	13.5	13.5	13.5	16.9	16.9	16.9	BR144J	KVA	37.5	37.5	37.5	46.9	46.9	46.9
	KW	10.8	10.8	10.8	13.5	13.5	13.5		KW	30	30	30	37.5	37.5	37.5
	EFFICIENCY	80.0	80.7	81.0	80.7	81.3	81.7		EFFICIENCY	86.7	87.2	87.4	87.2	87.5	87.8
BR044G	KVA	16	16	16	20	20	20	BR144JS	KVA	40	40	40	50	50	50
	KW	12.8	12.8	12.8	16	16	16		KW	32	32	32	40	40	40
	EFFICIENCY	81	81.6	81.9	81.7	82.2	82.7		EFFICIENCY	87.6	86.6	87.1	86.7	86.8	87.2
BR144FS	KVA	22.5	22.5	22.5	28.8	28.8	30	BR144JS	KVA	40	40	40	50	50	50
	KW	18	18	18	23	23	24		KW	32	32	32	40	40	40
	EFFICIENCY	84.3	84.9	85.3	84.3	84.9	85.2		EFFICIENCY	87.6	86.6	87.1	86.7	86.8	87.2

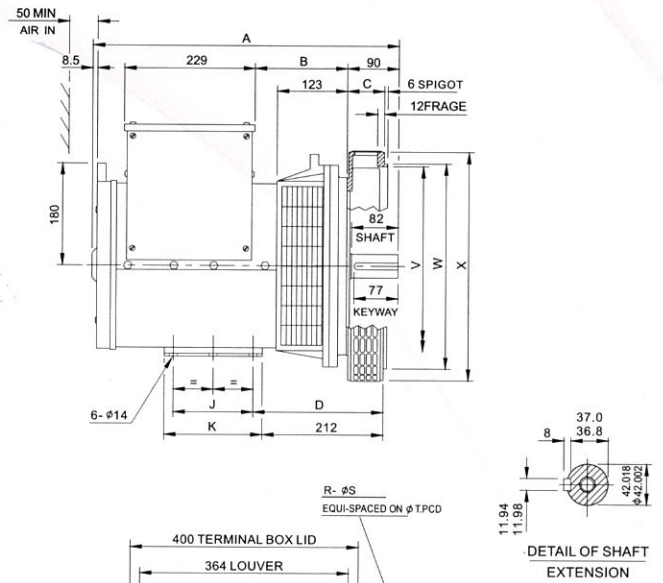
Note: The generators have been designed for use in a maximum ambient temperature of 40° C and altitude less than 1000m above sea level. All generators are 4-poles ones. Extended range voltage can be got from single windings or from 12-leads adjusted. Other special voltage range can be met by Bridgeford.

BRIDGEFORD[®] ALTERNATORS

BR1 SINGLE-BEARING



BR1 DOUBLE-BEARING



DIMENSION							
	A	B	K	F	E	J	H
BR044D	364.5	93	172	254	292	140	160
BR044E	364.5	93	172	254	292	140	160
BR044F	391.5	107	172	254	292	140	160
BR044G	391.5	107	172	254	292	140	160
BR144FS	431.5	147	242	279	319	210	180
BR144F	521.5	237	242	279	319	210	180
BR144G	521.5	237	242	279	319	210	180
BR144J	654.5	325	242	279	319	210	180
BR144JS	654.5	325	242	279	319	210	180

COUPLING DISC					
S.A.E.NO.	AB	AM	AP	AB	AB
6.5	30.16	6	8.7	200.0	215.8
7.5	30.16	8	8.7	222.2	241.2
8	61.9	6	11	244.5	263.4
10	53.98	8	11	295.3	314.2

ADAPTOR									
S.A.E.NO.	R	S	T	W	X	U	C	D	AW
3	8	11	428.6	409.5	451	15	145	129	105
4	8	11	381.0	361.9	402	15	133	117	93
5	8	11	333.3	314.3	356	22.5	133	117	93

ADAPTOR (ONLY FOR FD1J/K CORE)							
S.A.E.NO.	C	D	R	S	T	W	X
1	220.3	204.3	12	12.7	530.2	511.1	553
2	206.0	190.0	12	11.0	466.7	447.6	490
3	206.0	190.0	12	11.0	428.6	409.5	451
4	206.0	190.0	12	11.0	381.0	361.9	453

DIMENSION									
TYPE	A	B	C	D	K	F	E	J	H
BR044D	484.5	123	65	228	172	254	292	140	160
BR044E	484.5	123	65	228	172	254	292	140	160
BR044F	511.5	137	65	228	172	254	292	140	160
BR044G	511.5	137	65	228	172	254	292	140	160
BR144FS	551.5	177	65	228	242	279	319	210	180
BR144F	641.5	267	65	228	242	279	319	210	180
BR144G	641.5	267	65	228	242	279	319	210	180
BR144J	736.5	285	105	271	242	279	319	210	180
BR144JS	736.5	285	105	271	242	279	319	210	180

ADAPTOR							
S.A.E.NO.	R	S	T	V	W	X	U
3	12	11	428.6	396	409.5	451	15
4	12	11	381.0	352	361.9	403	15
5	8	11	333.3	301	314.3	356	22.5

TRANSPORTATION DATA					PACKAGE SIZE(mm)
TYPE	SINGLE-BEARING		DOUBLE-BEARING		
	N.W.(kg)	G.W.(kg)	N.W.(kg)	G.W.(kg)	
BR044D	85	95	91	101	640 x 540 x 720
BR044E	90	102	98	108	640 x 540 x 720
BR044F	96	110	106	116	640 x 540 x 720
BR044G	99	116	112	122	640 x 540 x 720
BR144FS	120	133	131	141	840 x 590 x 750
BR144F	150	156	154	164	840 x 590 x 750
BR144G	156	172	170	180	840 x 590 x 750
BR144J	216	226	220	230	850 x 550 x 850
BR144JS	226	236	230	240	860 x 550 x 850