



# MONOSUB R (MR)

Three Phase Openwell Submersible Pumpset



E-Warranty QR Code



Pumps **Made in India**  
with trusted German Technology

# MONOSUB R

## Three phase Openwell Submersible Pumpset

KSB Open well pumpsets "MONOSUB R" Series can be installed in the open wells and sumps. These pumpsets are made using sophisticated and advanced manufacturing processes to ensure top class performance of the pumpsets

New contemporary designs for 3 phase horizontal openwell series (up to 15 hp) are being launched with wide variety of models and variants under the name MONOSUB R.

### Special Features & Benefits

1. Wide voltage range - 250 to 440 V
2. Easy to Install
3. Specially Designed for underwater application and no need of priming
4. Smooth Operation
5. Long Life - Stainless steel shaft is used to have longer life
6. Carbon Steel thrust pad used - It reduces the frictional losses and are light in weight

### Applications

1. Flood irrigation through Openwell & Dugwells
2. Irrigation through sprinklers and drip systems
3. Community water supply
4. Water supply to bungalows & high rise buildings
5. Household water supply
6. Industrial water supply
7. Cooling circuits in HVAC
8. Decorative fountains

Part Name	MOC
Casing	Cast Iron
Impeller	Cast Iron
Adaptor / Bracket	Cast Iron
Rotor	Copper/Aluminum
Rotor Shaft	AISI 410 : Stainless Steel
Stator	Silicon Steel- IS 648
Bush Bearing	Carbon
Thrust bearings	Carbon + St. Steel

### Operating Data

- Capacity : Q Up to 132 m<sup>3</sup> / hr.
- Head : H Up to 78 m
- Max. Power Required : p 2.2 - 11 KW (3 - 15 HP)
- Temp. of liquid pumped : t 35° C
- Nominal Speed : n 2800 RPM
- Maximum Start Stop/Hour : 12
- Minimum Submerge : 1.5 m
- Starting Method : DOL & SD
- Power Supply : 415 V ( + 6 % - 15 % )

**Performance Chart (Power Supply : 415 V, 50 Hz)**

MODEL	STARTING METHOD	POWER RATING		PIPE SIZE (MM)		TOTAL HEAD IN METERS																					
		KW	HP	Suc.	Del.	Discharge In LPM																					
						8	10	11	12	14	15	16	17	18	19	20	21	21.5	22	23	24	25	26	27			
MR 3 A / 3 C- 60-50-18	DOL	2.2	3.0	60	50	-	-	680	659	617	584	551	518	485	438	367	280	-	-	-	-	-	-	-	-	-	-
MR 3 A / 3 C- 80-65-14	DOL	2.2	3.0	80	65	975	891	850	805	675	566	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MR 3 A / 3 C- 60-50-21	DOL	2.2	3.0	60	50	-	700	684	668	637	622	601	581	561	540	520	500	485	471	443	415	378	342	250	-	-	-
MR 3 A / 3 C- 80-65-18	DOL	2.2	3.0	80	65	1100	1058	1037	1010	958	918	879	839	800	711	622	533	366	200	-	-	-	-	-	-	-	-
MR 3 FA / 3 FC- 80-65-19	DOL	2.2	3.0	80	65	1300	1213	1169	1126	1039	994	950	901	853	805	748	692	648	604	517	430	-	-	-	-	-	-
MR 5 A / 5 C- 90-75-18	DOL	3.7	5.0	90	75	-	1500	1443	1387	1275	1206	1137	1068	1000	917	834	719	662	605	462	320	-	-	-	-	-	-
MR 5 FA / 5 FC- 90-75-21	DOL	3.7	5.0	90	75	-	-	-	1550	1472	1434	1384	1334	1284	1222	1161	1100	1062	1025	950	875	737	600	-	-	-	-
MR 5 A / 5 C - 80-65-19	DOL	3.7	5.0	80	65	-	-	-	1125	1042	1000	959	907	856	805	715	625	480	-	-	-	-	-	-	-	-	-
MR 7.5 A / 7.5 C- 90-75-21	DOL	5.5	7.5	90	75	-	-	-	-	-	-	1370	1327	1284	1222	1161	1100	1060	1021	942	842	742	600	-	-	-	
MR 7.5 FA / 7.5 FC- 100-75-20	DOL	5.5	7.5	100	75	-	-	-	-	-	-	-	1600	1500	1400	1300	1217	1175	1134	1034	934	-	-	-	-	-	
MR 7.5 A / 7.5 C- 90-75-21	SD	5.5	7.5	90	75	-	-	-	-	-	-	1370	1327	1284	1222	1161	1100	1060	1021	942	842	742	600	-	-	-	
MR 10 C- 100-75-20	SD	7.5	10	100	75	-	-	-	-	-	-	-	1600	1500	1400	1300	1217	1175	1133	1033	933	-	-	-	-	-	

\*C-Copper Rotor \*A-Aluminium Rotor \*DOL-Direct Load Connection \*SD-Star-delta Connection

**Performance Chart (Power Supply : 415 V, 50 Hz)**

MODEL	STARTING METHOD	POWER RATING		PIPE SIZE (MM)		TOTAL HEAD IN METERS																						
		KW	HP	Suc.	Del.	Discharge In LPM																						
						12	15	17	18	20	21	23	24	25	26	27	28	29	30	31	32	33	34	35				
MR 3 A / 3 C- 50-40-25	DOL	2.2	3.0	50	40	-	-	-	-	325	317	297	286	275	259	242	215	170	-	-	-	-	-	-	-	-	-	-
MR 3 A / 3 C- 60-50-29	DOL	2.2	3.0	60	50	-	-	-	-	-	-	500	482	464	447	423	399	375	340	305	262	200	-	-	-	-	-	-
MR 3 FA / 3 FC- 60-50-27	DOL	2.2	3.0	60	50	-	750	720	706	678	658	619	600	575	550	525	483	441	400	350	300	-	-	-	-	-	-	-
MR 5 A / 5 C- 60-50-27	DOL	3.7	5.0	60	50	-	-	-	-	680	661	623	605	578	551	525	490	440	405	366	300	-	-	-	-	-	-	-
MR 5 A / 5 C- 65-50-28	DOL	3.7	5.0	65	50	-	750	737	731	706	687	649	631	598	565	532	500	450	400	350	300	233	166	100	-	-	-	-
MR 5 A / 5 C- 80-65-26	DOL	3.7	5.0	80	65	1150	1072	1010	979	917	880	808	772	736	700	655	610	565	482	400	-	-	-	-	-	-	-	-
MR 5 FA / 5 FC- 80-65-28	DOL	3.7	5.0	80	65	-	1060	1028	1012	980	958	914	892	865	838	811	785	743	701	659	617	544	472	400	-	-	-	-
MR 7.5 A / 7.5 C- 80-65-28	DOL/SD	5.5	7.5	80	65	-	-	-	-	1000	975	927	903	873	844	814	785	747	709	671	633	577	522	400	-	-	-	-
MR 7.5 FA / 7.5 FC- 90-75-28	DOL/SD	5.5	7.5	90	75	-	1750	1676	1640	1567	1517	1417	1367	1317	1258	1199	1140	1062	985	908	804	700	-	-	-	-	-	-
MR 10 C- 90-75-28	SD	7.5	10	90	75	-	-	-	-	1500	1458	1375	1328	1281	1234	1187	1140	1088	1036	984	900	700	-	-	-	-	-	-
MR 10 FC- 90-80-28	SD	7.5	10	90	80	-	-	1860	1834	1784	1749	1679	1645	1593	1542	1491	1440	1350	1260	1170	1040	910	780	-	-	-	-	-
MR 12.5 C- 90-80-28	SD	9.3	12.5	90	80	-	-	-	-	-	1700	1650	1616	1583	1535	1487	1440	1367	1295	1222	1150	925	700	-	-	-	-	-
MR 12.5 FC- 90-75-24	SD	9.3	12.5	90	75	-	-	2200	2178	2134	2025	1808	1700	1605	1511	1417	1333	1250	1100	-	-	-	-	-	-	-	-	-
MR 15 C- 90-75-24	SD	11	15	90	75	-	-	2200	2178	2134	2025	1808	1700	1605	1511	1417	1333	1250	1100	-	-	-	-	-	-	-	-	-
MR 15 C- 90-80-33	SD	11	15	90	80	-	-	-	-	-	1800	1777	1766	1755	1744	1733	1691	1649	1608	1563	1519	1475	1383	1280	-	-	-	-

\*C-Copper Rotor \*A-Aluminium Rotor \*DOL-Direct Load Connection \*SD-Star-delta Connection

**Performance Chart (Power Supply : 415 V, 50 Hz)**

MODEL	STARTING METHOD	POWER RATING		PIPE SIZE (MM)		TOTAL HEAD IN METERS																						
		KW	HP	Suc.	Del.	Discharge In LPM																						
						17	19	21	22	24	25	27	28	29	31	33	34	37	38	39	41	43	44	45				
MR 3 A / 3 C- 50-40-29	DOL	2.2	3.0	50	40	490	460	429	414	383	366	333	317	300	263	230	213	100	-	-	-	-	-	-	-	-	-	
MR 3 A / 3 C- 50-40-34	DOL	2.2	3.0	50	40	-	-	-	-	245	240	229	223	217	196	175	165	116	100	-	-	-	-	-	-	-	-	-
MR 3 FA/ 3 FC- 50-40-37	DOL	2.2	3.0	50	40	-	520	502	494	476	468	451	442	433	416	394	383	350	332	315	280	215	183	100	-	-	-	
MR 3 FA- 60-50-34	DOL	2.2	3.0	60	50	-	-	-	-	-	525	501	489	477	448	416	400	295	250	150	-	-	-	-	-	-	-	
MR 5 A / 5 C- 50-40-37	DOL	3.7	5.0	50	40	-	-	-	-	-	500	480	470	460	435	407	392	350	330	311	267	217	183	150	-	-	-	
MR 5 A / 5 C- 60-50-34	DOL	3.7	5.0	60	50	-	-	-	-	-	525	501	489	477	448	416	400	295	250	150	-	-	-	-	-	-	-	
MR 5 FA/5 FC- 65-50-34	DOL	3.7	5.0	65	50	-	-	-	-	-	-	700	681	663	623	581	560	472	433	395	250	-	-	-	-	-	-	
MR 7.5 A / 7.5 C- 65-50-34	DOL/SD	5.5	7.5	65	50	-	-	-	-	-	800	738	707	676	623	581	560	472	433	395	250	-	-	-	-	-	-	
MR 7.5 A / 7.5 C- 65-50-39	DOL/SD	5.5	7.5	65	50	-	-	-	-	-	-	-	750	780	740	766	675	600	575	550	488	406	316	-	-	-	-	
MR 7.5 FA / 7.5 FC- 80-65-33	DOL/SD	5.5	7.5	80	65	-	-	1280	1256	1209	1185	1131	1101	1070	1001	925	862	675	537	400	-	-	-	-	-	-	-	
MR 10 C- 80-65-33	SD	7.5	10	80	65	-	-	-	-	-	1075	1043	1027	1012	968	925	893	750	625	500	-	-	-	-	-	-	-	
MR 10 FC- 80-65-38	SD	7.5	10	80	65	-	-	1300	1291	1275	1266	1250	1229	1208	1166	1125	1082	953	910	840	700	450	-	-	-	-	-	
MR 12.5 FC- 90-80-33	SD	9.3	12.5	90	80	-	1800	1756	1734	1692	1671	1629	1609	1582	1528	1475	1444	1332	1280	-	-	-	-	-	-	-	-	

\*C-Copper Rotor \*A-Aluminium Rotor \*DOL-Direct Load Connection \*SD-Star-delta Connection

**Performance Chart (Power Supply : 415 V, 50 Hz)**

MODEL	STARTING METHOD	POWER RATING		PIPE SIZE (MM)	TOTAL HEAD IN METERS																							
		KW	HP		Suc.	Del.	Discharge In LPM																					
							21	24	27	30	31	32	34	35	37	38	39	41	42	43	45	48	49	50	54			
MR 3 FC-60-50-34	DOL	2.2	3.0	60	50	-	-	-	450	439	428	400	380	333	241	150	-	-	-	-	-	-	-	-	-	-	-	-
MR 5 FA / 5 FC- 50-40-45	DOL	3.7	5.0	50	40	-	-	-	-	-	330	323	320	314	311	305	295	290	285	275	243	233	218	130	-	-	-	-
MR 7.5 FA / 7.5 FC- 65-50-42	DOL/SD	5.5	7.5	65	50	-	880	851	822	812	802	783	766	733	716	699	666	650	620	562	407	303	200	-	-	-	-	-
MR 10 C- 65-50-42	SD	7.5	10	65	50	-	-	-	-	750	743	729	722	708	696	685	661	650	627	583	467	383	300	-	-	-	-	-
MR 10 FC- 65-50-49	SD	7.5	10	65	50	-	-	1030	978	961	944	910	893	859	837	815	772	751	729	682	605	580	538	300	-	-	-	-
MR 12.5 C- 65-50-49	SD	9.3	12.5	65	50	-	-	-	-	-	1000	966	950	917	894	872	827	804	782	724	616	580	568	500	-	-	-	-
MR 12.5 C- 80-65-38	SD	9.3	12.5	80	65	-	-	-	1200	1168	1136	1073	1042	954	910	860	728	645	450	-	-	-	-	-	-	-	-	-
MR 12.5 FC- 80-65-41	SD	9.3	12.5	80	65	-	1500	1422	1345	1319	1293	1242	1217	1161	1133	1105	1050	1016	983	908	783	676	570	-	-	-	-	-
MR 15 FC- 90-80-39	SD	11	15	90	80	2000	1905	1811	1717	1678	1639	1562	1524	1447	1408	1370	1270	1220	1155	1025	700	-	-	-	-	-	-	-

MODEL	STARTING METHOD	POWER RATING		PIPE SIZE (MM)	TOTAL HEAD IN METERS																							
		KW	HP		Suc.	Del.	Discharge In LPM																					
							34	35	37	39	40	41	42	43	44	45	47	48	49	50	53	54	57	58	60	65		
MR 5 A / 5 C- 50-40-40	DOL	3.7	5.0	50	40	320	311	293	274	265	256	248	240	231	223	194	180	130	80	-	-	-	-	-	-	-	-	-
MR 7.5 A / 7.5 C- 50-40-45	DOL/SD	5.5	7.5	50	40	-	-	-	-	-	-	300	291	283	275	256	247	233	219	167	130	-	-	-	-	-	-	-
MR 7.5 FA / 7.5 FC- 50-40-57	DOL/SD	5.5	7.5	50	40	-	-	-	-	-	-	450	444	439	434	423	418	413	408	357	341	260	226	150	-	-	-	
MR 12.5 FC- 65-50-54	SD	9.3	12.5	65	50	900	887	861	835	823	810	797	784	772	759	734	719	704	689	644	630	566	533	400	-	-	-	-
MR 15 C- 65-50-54	SD	11	15	65	50	-	-	-	-	-	-	900	878	856	834	791	768	745	722	653	630	549	516	400	-	-	-	-
MR 15 C- 80-65-44	SD	11	15	80	65	-	1250	1194	1139	1103	1067	1031	995	960	923	850	808	767	710	-	-	-	-	-	-	-	-	-
MR 30 C- 125-100-45	SD	22	30	125	100	-	2717	2622	2526	2478	2431	2383	2321	2272	2216	2336	2303	1939	1883	1596	1500	-	-	-	-	-	-	-
MR 30 C- 100-75-60	SD	22	30	100	75	-	-	-	-	-	-	-	-	2200	2170	1850	1733	1617	2017	1870	1585	1490	1550	1000	-	-	-	-

\*C-Copper Rotor \*A-Aluminium Rotor \*DOL-Direct Load Connection \*SD- Star-delta Connection

Performance Chart (Power Supply : 415 V, 50 Hz)

MODEL	STARTING METHOD	POWER RATING		PIPE SIZE (MM)		TOTAL HEAD IN METERS																		
		KW	HP	Suc.	Del.	44	47	48	49	50	52	53	54	56	57	58	59	60	62	65	67	72	75	78
MR 10 C- 50-40-57	SD	7.5	10	50	40	400	373	364	355	347	323	311	300	270	260	253	246	240	220	-	-	-	-	-
MR 12.5 FC- 65-50-58	SD	9.3	12.5	65	50	-	-	-	-	870	839	823	808	766	745	725	698	672	620	515	400	-	-	-
MR 15 C- 65-50-58	SD	11	15	65	50	-	-	-	-	870	838	822	807	766	745	725	700	676	627	525	400	-	-	-
MR 15 FC- 65-50-67	SD	11	15	65	50	-	-	-	-	-	-	-	-	-	900	878	856	834	790	706	650	500	390	275
MR 15 FC- 80-65-56	SD	11	15	80	65	-	-	1280	1251	1223	1166	1135	1104	1043	1004	966	812	858	700	-	-	-	-	-
MR 20 C- 65-50-67	SD	15	20	65	50	-	-	-	-	-	-	-	-	-	900	878	857	835	792	707	650	500	392	275
MR 20 C- 80-65-56	SD	15	20	80	65	-	-	1280	1252	1224	1167	1136	1105	1043	1005	967	913	858	700	-	-	-	-	-

MODEL	STARTING METHOD	POWER RATING		PIPE SIZE (MM)		TOTAL HEAD IN METERS																		
		KW	HP	Suc.	Del.	7	10	14	18	20	21	23	26	28	30	31	33	34	35	36				
						Discharge In LPM																		
MR 10 C- 100-100-26	SD	7.5	10	100	100	2033	1967	1867	1733	1533	1497	1425	1317	1125	933	600	-	-	-	-	-	-	-	-
MR 10 C- 100-100-28	SD	7.5	10	100	100	-	-	-	-	1500	1458	1375	1234	1140	1035	983	700	-	-	-	-	-	-	-
MR 12.5 C- 100-100-28	SD	9.3	12.5	100	100	-	-	-	-	-	1700	1650	1535	1440	1295	1223	874	700	-	-	-	-	-	-
MR 12.5 FC- 125-100-30	SD	9.3	12.5	125	100	-	-	-	2300	2209	2163	2138	1900	1784	1667	1583	1392	1296	1200	-	-	-	-	-
MR 15 C- 100-100-33	SD	11	15	100	100	-	-	-	-	-	1800	1778	1744	1691	1608	1564	1475	1383	1280	-	-	-	-	-
MR 15F C- 125-100-31	SD	11	15	125	100	-	2800	2633	2483	2392	2346	2274	2167	2034	1900	1850	1709	1638	1567	1450	-	-	-	-

\*C-Copper Rotor \*A-Aluminium Rotor \*DOL-Direct Load Connection \*SD- Star-delta Connection

**Performance Chart (Power Supply : 415 V, 50 Hz)**

MODEL	STARTING METHOD	POWER RATING		PIPE SIZE (MM)	TOTAL HEAD IN METERS																
		KW	HP		Suc.	Del.	Discharge In LPM														
							21	22	26	30	35	39	40	42	45	48	50	52	54	55	
MR 20 C- 90-75-39	SD	15	20	90	75	2000	1969	1843	1717	1524	1370	-	1220	1025	700	-	-	-	-	-	-
MR 20 C- 100-75-50	SD	15	20	100	75	-	-	-	-	-	-	1800	1727	1617	1487	1400	1300	1200	1133	1133	
MR 20 C- 125-100-35	SD	15	20	125	100	-	2483	2283	2100	1817	1447	-	1133	-	-	-	-	-	-	-	-

MODEL	STARTING METHOD	POWER RATING		PIPE SIZE (MM)	TOTAL HEAD IN METERS															
		KW	HP		Suc.	Del.	Discharge In LPM													
							15	27	30	35	38	40	42	43	45	50	55	60	65	68
MR 20 FC- 80-65-60	SD	15.0	20	80	65	-	-	-	1600	1567	1544	1522	1511	1481	1407	1333	1200	1000	800	800
MR 20 FC- 125-100-38	SD	15.0	20	125	100	2600	2418	2250	1969	1800	1579	1450	1350	-	-	-	-	-	-	-
MR 25 C- 125-100-38	SD	18.6	25	125	100	2600	2417	2248	968	1800	1650	1450	1350	-	-	-	-	-	-	-
MR 25 C- 100-100-42	SD	18.6	25	100	100	-	-	2050	1883	1747	1690	1633	1594	1516	1200	-	-	-	-	-
MR 25 C- 80-65-60	SD	18.6	25	80	65	-	-	-	1600	1566	1544	1517	1503	1477	1409	1333	1200	1000	800	
MR 25 C- 100-75-50	SD	18.6	25	100	75	-	-	-	-	-	1800	1727	1690	1617	1400	1133	-	-	-	-

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**KSB Limited**  
**Standard Pumps Division**  
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**Our toll free no : 1800 233 1299**  
(Monday to Sunday - 8am to 8pm)

Mktg. Services / 05-24 / 2000