

BMM Series hydraulic orbit motor



Replace with Danfoss OMM,M+S MM/MLHM,Eaton J

Parameters

Type		BMM -8	BMM -12.5	BMM -20	BMM -32	BMM -40	BMM -50
Displacement (cm ³ /rev.)		8.2	12.9	19.9	31.6	39.8	50.3
Max. speed (rpm)	cont.	1950	1550	1000	630	500	400
	int.	2450	1940	1250	800	630	500
Max. torque (N·m)	cont.	11	16	25	40	45	46
	int.	15	23	35	57	70	88
	peak	21	33	51	64	82	100
Max. output (K W)	cont.	1.8	2.4	2.4	2.4	2.2	1.8
	int.	2.6	3.2	3.2	3.2	3.2	3.2
Max. pressure drop (Mpa)	cont.	10	10	10	10	9	7
	int.	14	14	14	14	14	14
	peak	20	20	20	16	16	16
Max. flow (L/min)	cont.	16	20	20	20	20	20
	int.	20	25	25	25	25	25
Weight (kg)		1.9	2	2.1	2.2	2.3	2.4

Selection

1	2	3	4
Series	Displacement	Flange	Output shaft
BMM	8	Code M: 3-M6 Circle-flange, pilot Ø31.5 ×5	Code A: Shaft Dia Ø16, Parallel key 5 ×5×16 Code B: Shaft Dia Ø15.875 Parallel key 4.8×4.8×19.05 Code C: Shaft Dia Ø16.5, involute Spline shaft B17× 14, DIN5482
	12.5		
	20	Code U: 3-1/4-28UNF Circle-flange, pilot Ø31.5×5 Code F: 2-Ø9 Oval-flange, pilot Ø63×2	
	32		
	40		
	50		
5	6	7	8
Port and drain port	Rotation direction	Paint	Unusually function
Code E: G3/8, G1/8 Code U : 9/16-18UNF, 3/8-24UNF, Code 1E: End port G3/8, G1/8 Code 1U: End port 9/16- 18UNF, 3/8-24UNF	Omit: Standard Code R: Opposite	Omit: Blue Code 00: No paint Code B: Black Code S: Silver Grey	Omit: Standard Code 0: No case drain

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Performance Data

BMM8 [8.2 cm³/rev.]

		Pressure (MPa)						Max cont.	Max int.
		3.5	5	7	10	12	14		
Flow (L/min)	2	3	5	8	10	12	14		
		228	218	206	156	111	58		
	4	474	471	463	426	391	331		
	8	953	946	926	884	855	816		
	12	1444	1426	1402	1360	1324	1288		
Max cont.	15		4	7	10	12	14		
Max int.	20			6	10	11	14		

BMM12.5 [12.9 cm³/rev.]

		Pressure (MPa)						Max cont.	Max int.
		3.5	5	7	10	12	14		
Flow (L/min)	2	6	8	11	16	19			
		140	136	119	68	35			
	4	296	289	274	229	200	145		
	8	605	596	583	543	514	469		
	12	912	905	895	859	834	784		
Max cont.	15	1152	1144	1136	1102	1078	1036		
	20	1542	1532	1521	1500	1482	1437		
	25	1910	1891	1878	1848	1828	1788		
		2	6	9	14	18	22		

BMM20 [19.9 cm³/rev.]

		Pressure (MPa)						Max cont.	Max int.
		1.7	3.5	5	7	10	12	14	
Flow (L/min)	2	3	9	14	19	26	30		
		99	96	89	74	42	21		
	4	197	191	182	178	134	112	74	
	8	398	395	391	377	340	319	288	
	12	596	594	588	579	545	523	493	
Max cont.	15	745	741	738	728	695	684	660	
	20	998	995	991	985	962	916	885	
	25			4	9	14	23	28	33

BMM32 [31.6 cc/rev.]

		Pressure (MPa)						Max cont.	Max int.
		2	3.5	5	7	10	12	14	
Flow (L/min)	2	7	15	21	28	40			
		61	57	52	47	16			
	4	126	121	114	106	82	67	49	
	8	250	244	239	231	207	194	167	
	12	378	374	369	362	338	322	297	
Max cont.	15	476	472	468	462	441	429	406	
	20	633	630	627	619	601	585	566	
	25	791	789	787	783	766	753	732	
		1	8	15	23	35	43	52	

BMM40 [39.8 cm³/rev.]

		Pressure (MPa)						Max cont.	Max int.
		3	5	7	8.5	10	12		
Flow (L/min)	2	16	27	36	44	51			
		45	40	34	28	17			
	4	96	93	85	79	65	52		
	8	197	195	182	176	166	154		
	12	293	287	282	277	268	257		
Max cont.	15	371	365	360	355	347	338		
	20	497	492	487	480	472	463		
	25	622	617	612	607	600	591		
		7	19	29	37	44	56		

BMM50 [50.3 cm³/rev.]

		Pressure (MPa)					Max cont.	Max int.
		1.5	3	5	7	10		
Flow (L/min)	2	11	23	36	50			
		37	33	27	22			
	4	76	73	68	63	55		
	8	157	154	149	145	137		
	12	237	234	231	226	218		
Max cont.	15	296	295	294	288	282		
	20	395	395	393	390	381		
	25	498	496	494	490	484		
		8	14	29	44	64		
		4	10	25	40	59		

Torque: 43 N.m
Speed: 753 rpm

cont.
int.

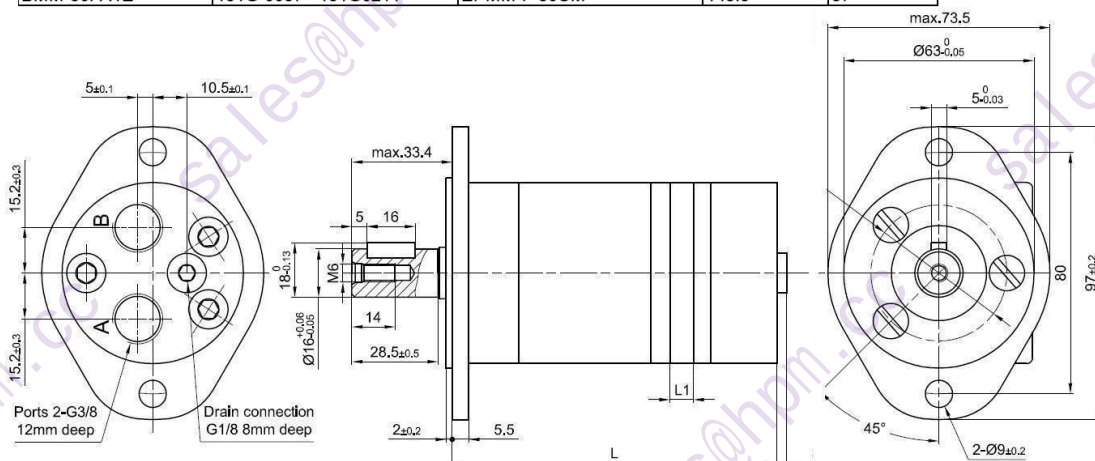
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Popular model drawing

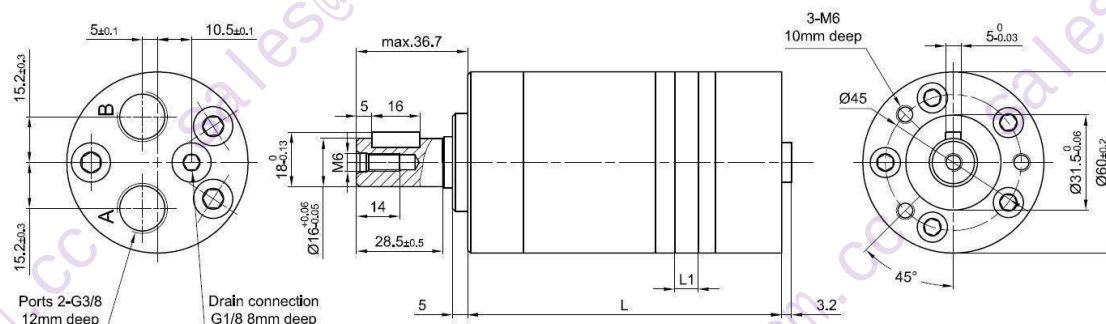
BMM-x-F-A-1E

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8FA1E	151G-0040+ 151G0211	EPMM-F-8CM**	112.3	5.8
BMM-12.5FA1E	151G-0001+ 151G0211	EPMM-F-12.5CM**	115.5	9
BMM-20FA1E	151G-0002+ 151G0211	EPMM-F-20CM**	121	14.5
BMM-32FA1E	151G-0003+ 151G0211	EPMM-F-32CM**	129.5	23
BMM-40FA1E	151G-0277+ 151G0211	EPMM-F-40CM**	135.5	29
BMM-50FA1E	151G-0037+ 151G0211	EPMM-F-50CM**	143.5	37



BMM-x-M-A-1E

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8MA1E	151G-0040	EPMM-8CM**	115.8	5.8
BMM-12.5MA1E	151G-0001	EPMM-12.5CM**	119	9
BMM-20MA1E	151G-0002	EPMM-20CM**	124.5	14.5
BMM-32MA1E	151G-0003	EPMM-32CM**	133	23
BMM-40MA1E	151G-0277	EPMM-40CM**	139	29
BMM-50MA1E	151G-0037	EPMM-50CM**	147	37



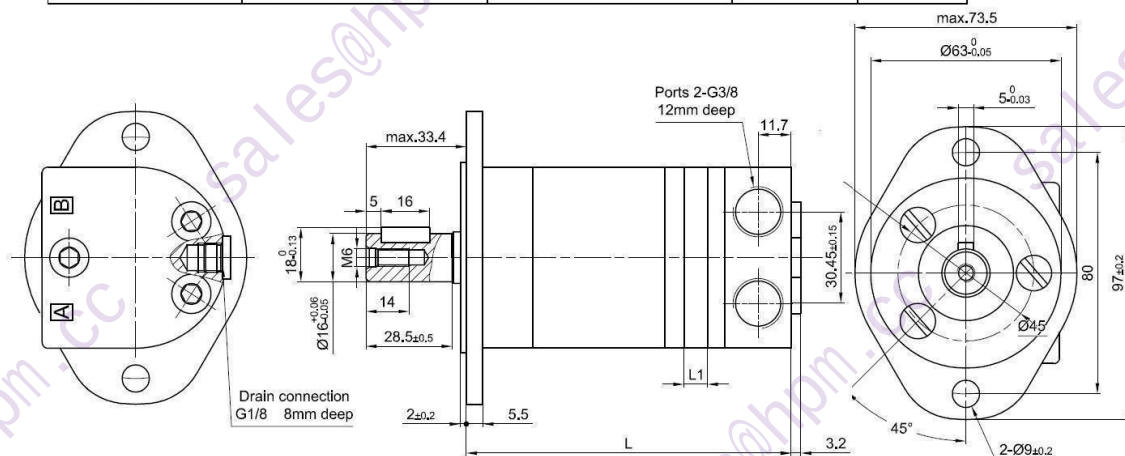
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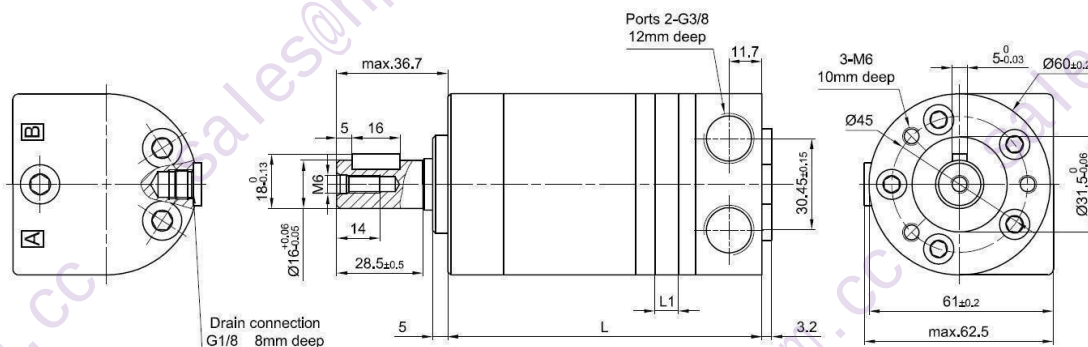
BMM-x-F-A-E

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8FAE	151G-0041+ 151G0211	EPMM-FS-8CM**	112.3	5.8
BMM-12.5FAE	151G-0004+ 151G0211	EPMM-FS-12.5CM**	115.5	9
BMM-20FAE	151G-0005+ 151G0211	EPMM-FS-20CM**	121	14.5
BMM-32FAE	151G-0006+ 151G0211	EPMM-FS-32CM**	129.5	23
BMM-40FAE	151G-0279+ 151G0211	EPMM-FS-40CM**	135.5	29
BMM-50FAE	151G-0013+ 151G0211	EPMM-FS-50CM**	143.5	37



BMM-x-M-A-E

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8MAE	151G-0041	EPMM-S-8CM**	112.3	5.8
BMM-12.5MAE	151G-0004	EPMM-S-12.5CM**	115.5	9
BMM-20MAE	151G-0005	EPMM-S-20CM**	121	14.5
BMM-32MAE	151G-0006	EPMM-S-32CM**	129.5	23
BMM-40MAE	151G-0279	EPMM-S-40CM**	135.5	29
BMM-50MAE	151G-0013	EPMM-S-50CM**	143.5	37



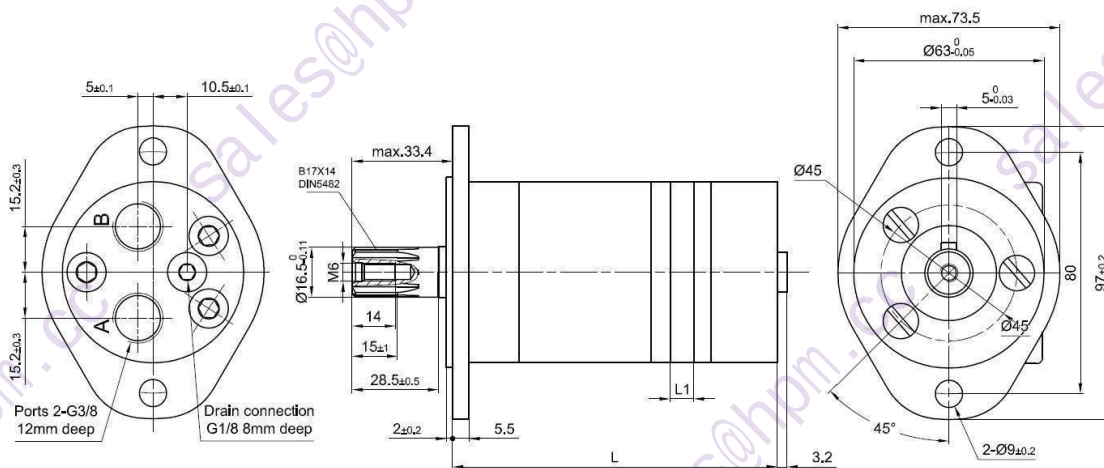
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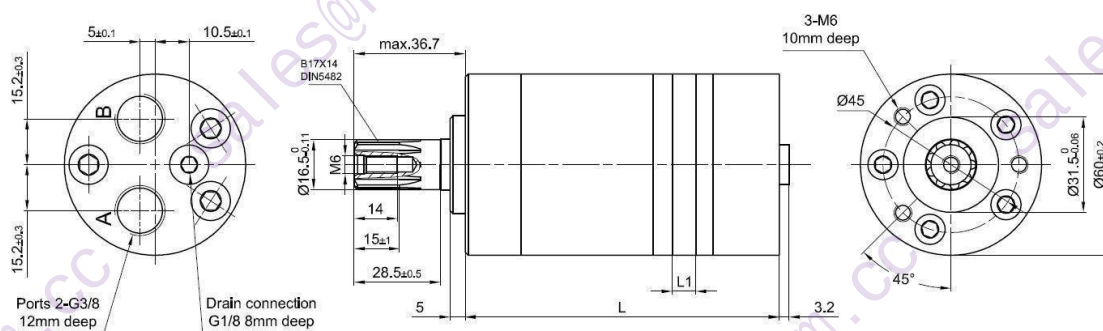
BMM-x-FC1E

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8FC1E	151G-0046+ 151G0211	EPMM-F-8SHM**	115.8	5.8
BMM-12.5FC1E	151G-0024+ 151G0211	EPMM-F-12.5SHM**	119	9
BMM-20FC1E	151G-0025+ 151G0211	EPMM-F-20SHM**	124.5	14.5
BMM-32FC1E	151G-0026+ 151G0211	EPMM-F-32SHM**	133	23
BMM-40FC1E		EPMM-F-40SHM**	139	29
BMM-50FC1E		EPMM-F-50SHM**	147	37



BMM-x-MC1E

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8MC1E	151G-0046	EPMM-8SHM**	115.8	5.8
BMM-12.5MC1E	151G-0024	EPMM-12.5SHM**	119	9
BMM-20MC1E	151G-0025	EPMM-20SHM**	124.5	14.5
BMM-32MC1E	151G-0026	EPMM-32SHM**	133	23
BMM-40MC1E		EPMM-40SHM**	139	29
BMM-50MC1E		EPMM-50SHM**	147	37



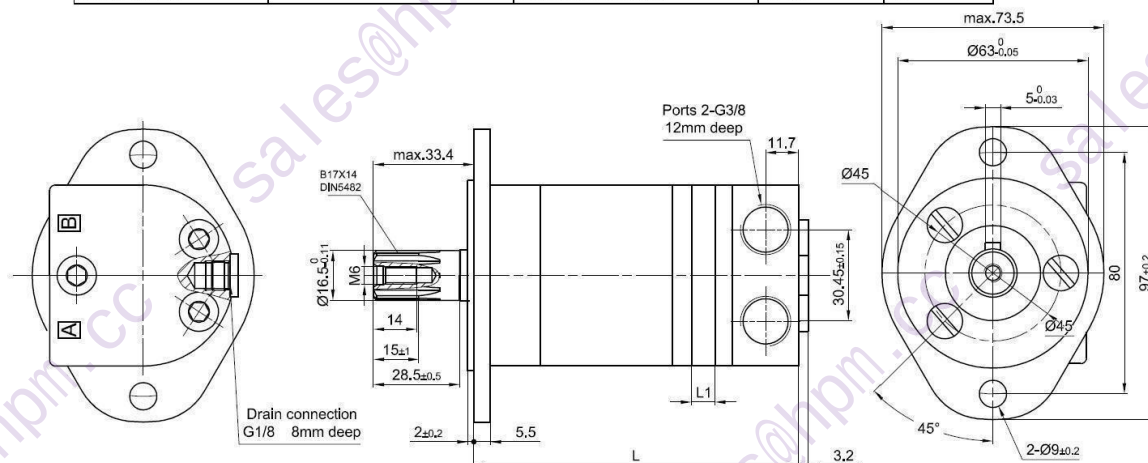
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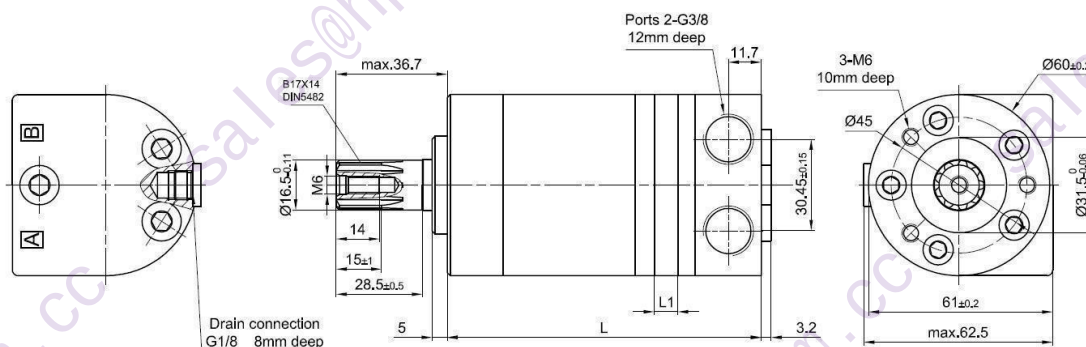
BMM-x-FCE

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8FCE	151G-0047+ 151G0211	EPMM-FS-8SHM**	112.3	5.8
BMM-12.5FCE	151G-0027+ 151G0211	EPMM-FS-12.5SHM**	115.5	9
BMM-20FCE	151G-0028+ 151G0211	EPMM-FS-20SHM**	121	14.5
BMM-32FCE	151G-0029+ 151G0211	EPMM-FS-32SHM**	129.5	23
BMM-40FCE	151G-0294+ 151G0211	EPMM-FS-40SHM**	135.5	29
BMM-50FCE		EPMM-FS-50SHM**	143.5	37



BMM-x-MCE

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8MCE	151G-0047	EPMM-S-8SHM**	112.3	5.8
BMM-12.5MCE	151G-0027	EPMM-S-12.5SHM**	115.5	9
BMM-20MCE	151G-0028	EPMM-S-20SHM**	121	14.5
BMM-32MCE	151G-0029	EPMM-S-32SHM**	129.5	23
BMM-40MCE	151G-0294	EPMM-S-40SHM**	135.5	29
BMM-50MCE		EPMM-S-50SHM**	143.5	37



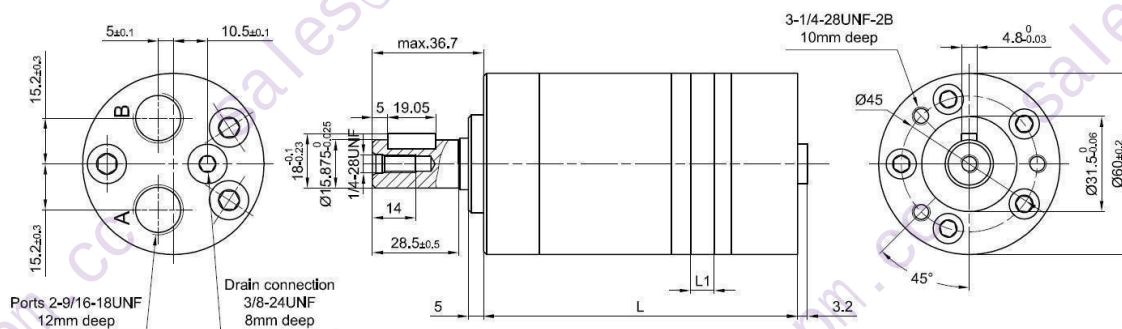
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BMM-x-UB1U

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8UB1U	151G-0048	MLHM-8C7**	115.8	5.8
BMM-12.5UB1U	151G-0031	MLHM-12.5C7**	119	9
BMM-20UB1U	151G-0032	MLHM-20SC7**	124.5	14.5
BMM-32UB1U	151G-0033	MLHM-32SC7**	133	23
BMM-40UB1U		MLHM-40SC7**	139	29
BMM-50UB1U	151G-5032	MLHM-50SC7**	147	37



BMM-x-UBU

HPM Model	Danfoss Model	M+S Model	L mm	L1 mm
BMM-8UBU	151G-0049	MLHM-8C4**	112.3	5.8
BMM-12.5UBU	151G-0034	MLHM-12.5C4**	115.5	9
BMM-20UBU	151G-0035	MLHM-20SC4**	121	14.5
BMM-32UBU	151G-0036	MLHM-32SC4**	129.5	23
BMM-40UBU		MLHM-40SC4**	135.5	29
BMM-50UBU	151G-0094	MLHM-50SC4**	143.5	37

