



TCFT, TCFB



Construction

Motor with painted cast aluminum casing. Impellers made of injection moulded plastic reinforced with anchored fiberglass, UV stable (TCFT/TCFB), or die casted in aluminium (TCBT/TCBB). Dynamic balanced according to ISO 1940. Adjustable impellers in plastic or aluminium can be supplied on request. For duct installation the fan is mounted in a casing of steel sheet. The motor and the unique construction of the impeller give compact solidity and allow wall- and duct-mounting in all variable positions.

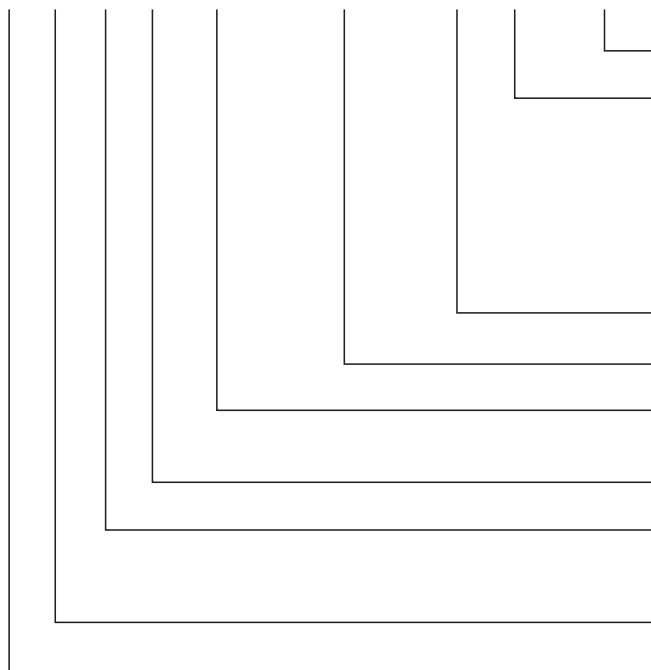
Motor

380–415V, 50Hz three-phase alt. 220–240V, 50Hz single-phase asynchronous motor, thermal protection with outgoing leads to the terminal box. Enclosure IP65 according to UNE 20–11 and IEC 34–5 (waterproof, dustproof design). Insulation class F for a maximum environmental temperature of +70°C. The motor is designed according

to IEC 34–1 and is dynamic balanced according to ISO 1940. Speed controllable by variation of the supply voltage by means of transformer or electric regulator. Special voltage or frequency, improved enclosure and three-phase motors for "Y" resp. "Δ" – running can be supplied on request.

Wiring diagram, see page 179.

Model numbering system



Special version

- A** = air direction motor - impeller for wall mounting
- B** = air direction impeller - motor, standard for duct mounting
- Ex** = explosion proof motor EExe II T3
- L** = weather proof enclosure **M** = extended lead (830mm long)
- S** = motor and impeller only

Blade angle **H** = high (approx 34°) **L** = low (approx 22°)

Nominal diameter in mm

Speed: 2 = approx 2900rpm 50Hz 4 = approx 1400rpm 50Hz
 6 = approx 900rpm 50Hz 8 = approx 700rpm 50Hz

Type of motor: **T** = three-phase **B** = single-phase

Impeller: **F** = fixed blades impeller, standard
 G = adjustable blade impellers
 B = impeller in aluminium

C = compact series

Fan mounting: **H** = wall mounted **T** = case duct mounted

Accessories



ACOP
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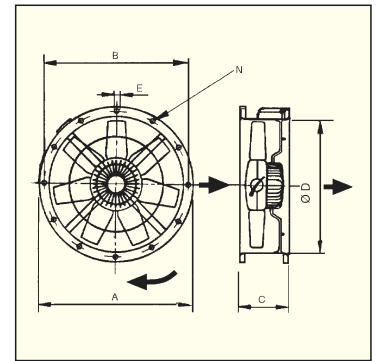
REB
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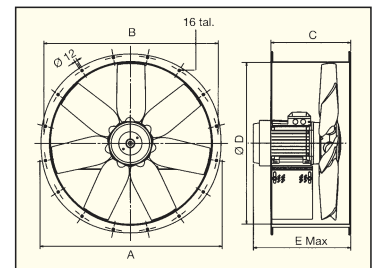
RMB, RMT
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Dimensions in mm

Type	ØA	B	C	ØD	ØE	Number of holes N
250	327	292	170	254	10	4
315	386	355	170	315	10	8
355	426	395	170	355	10	8
400	487	450	170	400	12	8
450	537	500	180	450	12	8
500	595	560	180	500	12	12
560	655	630	240	560	12	12
630	725	690	240	630	12	12
710 (6/8 p)	806	770	240	710	12	16



Type	ØA	B	C	ØD	E		
					4 p	6 p	8 p
710/L (4 p)	806	770	350	710	405	-	-
710/H (4 p)	806	770	350	710	426	-	-
800/L	896	860	350	800	419	398	398
800/K	896	860	350	800	415	419	398
800/G	896	860	350	800	471	415	419
800/H	896	860	350	800	471	415	419



Acoustic characteristics Sound pressure level dB(A)

2-POLE

Type \ Hz	63	125	250	500	1000	2000	4000	8000
2-250/H	50	61	68	73	74	74	67	58

6-POLE

Type \ Hz	63	125	250	500	1000	2000	4000	8000
6-355/H	39	45	46	52	53	54	48	37
6-400/H	34	46	49	59	60	60	53	41
6-450/H	32	48	52	60	64	62	56	47
6-500/H	36	52	55	64	68	66	60	50
6-560/L	36	51	57	66	70	68	62	54
6-560/H	38	53	59	68	72	70	64	56
6-630/L	37	51	60	69	73	71	65	58
6-630/H	39	53	62	71	75	72	67	60
6-710/L	45	66	72	78	79	76	71	64
6-710/H	48	68	75	81	82	79	74	67
6-800/L	58	74	86	89	89	84	77	68
6-800/K	60	76	88	91	91	85	78	69
6-800/G	61	77	88	92	92	86	79	70
6-800/H	62	79	90	93	94	88	81	72

4-POLE

Type \ Hz	63	125	250	500	1000	2000	4000	8000
4-250/H	44	50	57	58	60	59	53	42
4-315/H	37	47	57	61	66	63	57	48
4-355/H	39	59	56	65	70	66	61	52
4-400/H	41	62	58	67	74	70	66	43
4-450/H	41	57	60	69	73	71	65	55
4-500/H	44	61	64	73	76	75	68	59
4-560/L	44	60	66	75	78	76	71	62
4-560/H	46	61	67	76	80	78	72	64
4-630/L	46	60	69	78	82	80	75	67
4-630/H	47	61	70	79	83	81	76	68
4-710/L	52	72	79	84	86	83	78	70
4-710/H	56	76	83	88	90	86	81	74
4-800/L	64	81	92	95	96	90	83	74
4-800/K	67	83	94	98	98	92	85	76
4-800/G	69	85	96	99	100	94	87	78
4-800/H	71	87	99	102	102	97	90	81

8-POLE

Type \ Hz	63	125	250	500	1000	2000	4000	8000
8-450/H	38	41	47	52	58	55	47	37
8-500/H	41	43	50	55	61	58	49	39
8-560/H	44	47	53	58	64	61	53	43
8-630/H	43	49	59	67	71	67	58	50
8-710/H	42	62	69	74	76	72	67	60
8-800/L	54	70	81	85	85	79	72	63
8-800/K	54	71	82	85	86	80	73	64
8-800/G	55	72	83	86	86	81	74	65
8-800/H	56	72	84	87	87	82	75	66

Technical specification TCFT / TCFB

	Number of poles	Type	Speed rpm	Maximum power absorbed W	Maximum current A		Duty at free discharge (max) m³/h	Sound pressure level dB (A)	Weight kg	Speed regulation device	Article number
					230 V	400 V					
SINGLE-PHASE	2	TCFB/2-250/H	2500	250	1,2	—	65	2160	5	—	112 350 895
		TCFB/4-250/H	1330	60	0,3	—	52	1215	5	REB-1	112 350 995
	4	TCFB/4-315/H	1300	100	0,6	—	54	2350	7	REB-1	112 351 051
		TCFB/4-355/H	1225	200	1,0	—	58	3490	8	REB-2,5	112 351 151
		TCFB/4-400/H	1200	340	1,6	—	60	5070	9	REB-2,5	112 351 251
		TCFB/4-450/H	1290	480	2,3	—	65	6760	13	REB-2,5	112 351 351
		TCFB/4-500/H	1290	650	3,0	—	68	9200	16	REB-5N	112 351 451
		TCFB/4-560/H	1250	980	4,9	—	71	12480	22	REB-5N	112 351 551
		TCFB/4-630/H	1200	1700	7,6	—	72	17060	25	—	112 351 651
	6	TCFB/6-355/H	800	90	0,5	—	50	2210	8	REB-1	112 352 351
		TCFB/6-400/H	750	110	0,6	—	52	3400	9	REB-1	112 352 451
		TCFB/6-450/H	835	220	1,2	—	53	4550	13	REB-2,5	112 352 551
		TCFB/6-500/H	840	290	1,6	—	56	5820	16	REB-2,5	112 352 651
		TCFB/6-560/H	900	420	2,4	—	59	7870	22	REB-2,5	112 352 751
		TCFB/6-630/H	800	510	2,6	—	60	10750	25	REB-5N	112 352 851
	8	TCFB/8-450/H	625	130	0,7	—	48	3500	13	REB-1	112 354 551
		TCFB/8-500/H	605	160	0,9	—	49	4660	16	REB-1	112 354 651
		TCFB/8-560/H	610	240	1,3	—	51	5990	22	REB-2,5	112 354 751
		TCFB/8-630/H	585	320	1,7	—	52	8340	25	REB-2,5	112 354 851
	THREE-PHASE	2	TCFT/2-250/H	2500	250	0,9	0,5	65	2160	5	—
TCFT/4-250/H			1330	60	0,3	0,2	52	1220	5	RMT-1,5	112 349 055
4		TCFT/4-315/H	1300	150	0,6	0,3	54	2350	7	RMT-1,5	112 350 051
		TCFT/4-355/H	1260	200	0,8	0,5	58	3490	8	RMT-1,5	112 350 151
		TCFT/4-400/H	1350	300	1,4	0,8	60	5070	9	RMT-1,5	112 350 251
		TCFT/4-450/H	1230	500	1,7	1,0	65	6760	13	RMT-1,5	112 350 351
		TCFT/4-500/H	1350	660	2,7	1,6	68	9200	16	RMT-3,5	112 350 451
		TCFT/4-560/H	1320	1210	3,9	2,3	71	12480	22	RMT-3,5	112 350 551
		TCFT/4-630/H	1420	1550	5,2	3,0	72	17060	25	—	112 350 651
6		TCFT/6-355/H	875	90	0,5	0,3	50	2210	8	RMT-1,5	112 351 751
		TCFT/6-400/H	830	110	0,5	0,3	52	3400	9	RMT-1,5	112 351 851
		TCFT/6-450/H	835	190	0,8	0,5	53	4550	13	RMT-1,5	112 352 041
		TCFT/6-500/H	840	250	0,9	0,5	56	5820	16	RMT-1,5	112 352 051
		TCFT/6-560/H	900	410	1,6	0,9	59	8260	22	RMT-1,5	112 352 151
		TCFT/6-630/H	810	460	2,0	1,2	60	11000	25	RMT-1,5	112 352 251
8		TCFT/8-450/H	660	130	0,7	0,4	51	3500	13	RMT-1,5	112 353 551
		TCFT/8-500/H	625	150	0,7	0,4	53	4660	16	RMT-1,5	112 353 651
		TCFT/8-560/H	610	230	1,0	0,6	55	5990	22	RMT-1,5	112 353 751
		TCFT/8-630/H	635	310	1,3	0,8	57	8340	25	RMT-1,5	112 353 851

Technical specification TCBT / TCBB

	Number of poles	Type	Speed rpm	Maximum power absorbed W	Maximum current A		Duty at free discharge (max) m³/h	Sound pressure level dB (A)	Weight kg	Speed regulation device	Article number	
					230 V	400 V						
SINGLE-PHASE	2	TCBB/2-250/H	2500	240	1,2	—	65	2210	8,0	—	112 350 891	
	4	TCBB/4-250/H	1330	60	0,3	—	52	1250	8,0	REB-1	112 350 997	
		TCBB/4-315/H	1300	100	0,6	—	54	2340	11,0	REB-1	112 351 071	
		TCBB/4-355/H	1225	200	1,0	—	58	3470	13,2	REB-2,5	112 351 171	
		TCBB/4-400/H	1200	340	1,6	—	60	5100	15,5	REB-2,5	112 351 271	
		TCBB/4-450/H	1370	620	2,7	—	62	7100	21,0	REB-5	112 351 371	
		TCBB/4-500/H	1300	80	3,5	—	66	9710	25,0	REB-5	112 351 471	
		TCBB/4-560/L	1300	1240	5,8	—	67	11750	33,0	RMB-8	112 351 570	
		TCBB/4-560/H	1340	1680	7,7	—	69	13780	34,7	—	112 351 571	
	TCBB/4-630/L	1280	1800	8,4	—	70	16100	40,0	—	112 351 670		
	6	TCBB/6-355/H	800	90	0,5	—	50	2220	13,2	REB-1	112 352 371	
		TCBB/6-400/H	750	110	0,6	—	52	3240	15,5	REB-1	112 352 471	
		TCBB/6-450/H	890	240	1,2	—	53	4590	20,7	REB-2,5	112 352 571	
		TCBB/6-500/H	890	310	1,7	—	57	6100	24,8	REB-2,5	112 352 671	
		TCBB/6-560/L	900	420	2,4	—	58	7400	33,0	REB-5	112 352 770	
		TCBB/6-560/H	900	550	2,8	—	60	8680	33,5	REB-5	112 352 771	
		TCBB/6-630/L	860	640	3,1	—	60	10600	38,0	REB-5	112 352 864	
		TCBB/6-630/H	930	980	5,4	—	62	13000	38,5	RMB-8	112 352 865	
		TCBB/6-710/L	900	1050	5,5	—	66	15800	46,0	—	112 352 870	
		TCBB/6-710/H	840	1300	6,5	—	69	17800	46,0	—	112 352 871	
	8	TCBB/8-450/H	620	140	0,8	—	47	3450	20,7	REB-1	112 354 571	
		TCBB/8-500/H	595	175	1,0	—	48	4750	24,8	REB-2,5	112 354 671	
		TCBB/8-560/H	595	260	1,4	—	50	6620	33,0	REB-2,5	112 354 771	
		TCBB/8-630/H	680	440	2,1	—	57	8730	38,5	REB-2,5	112 354 871	
		TCBB/8-710/H	625	480	2,4	—	63	11000	46,0	—	112 353 865	
	THREE-PHASE	2	TCBT/2-250/H	2500	240	0,9	0,5	65	2210	8,0	—	112 330 991
4		TCBT/4-250/H	1330	60	0,3	0,2	52	1250	8,0	RMT-1,5	112 349 056	
		TCBT/4-315/H	1300	150	0,6	0,3	54	2340	11,0	RMT-1,5	112 350 071	
		TCBT/4-355/H	1260	200	0,8	0,5	58	3470	13,2	RMT-1,5	112 350 171	
		TCBT/4-400/H	1360	300	1,4	0,8	60	5100	15,5	RMT-1,5	112 350 271	
		TCBT/4-450/H	1400	630	2,7	1,6	62	7100	21,0	RMT-3,5	112 350 371	
		TCBT/4-500/H	1340	880	2,9	1,7	66	9710	25,0	RMT-3,5	112 350 471	
		TCBT/4-560/L	1320	1210	3,9	2,3	67	11750	33,0	RMT-8	112 350 570	
		TCBT/4-560/H	1370	1520	4,9	2,8	69	13780	34,7	—	112 350 571	
		TCBT/4-630/L	1330	1900	5,6	3,2	69	16100	39,0	—	112 350 580	
		TCBT/4-630/H	1360	2200	7,1	4,0	70	18200	40,0	—	112 350 581	
		TCBT/4-710/L	1420	2500	8,4	4,8	73	21590	46,0	—	112 350 670	
		TCBT/4-710/H	1450	3400	11,1	6,4	76	25500	54,0	—	112 350 671	
		TCBT/4-800/L	1450	3700	11,2	6,5	82	29200	65,0	—	112 350 770	
		TCBT/4-800/K	1450	5000	-	9,0	84	33300	68,0	—	112 350 772	
TCBT/4-800/G		1460	6900	-	11,6	87	38400	81,0	—	112 350 774		
TCBT/4-800/H		1460	8800	-	15,0	89	43200	89,0	—	112 350 776		
6		TCBT/6-355/H	875	90	0,5	0,3	50	2220	13,2	RMT-1,5	112 351 771	
		TCBT/6-400/H	830	110	0,5	0,3	52	3240	15,5	RMT-1,5	112 351 871	
		TCBT/6-450/H	890	200	0,9	0,5	53	4590	20,7	RMT-1,5	112 352 071	
		TCBT/6-500/H	870	270	1,0	0,6	57	6100	24,8	RMT-1,5	112 352 081	
		TCBT/6-560/L	900	410	1,6	0,9	58	7400	33,0	RMT-3,5	112 352 170	
		TCBT/6-560/H	870	470	1,7	1,0	60	8680	33,5	RMT-3,5	112 352 171	
		TCBT/6-630/L	890	620	2,2	1,3	60	10600	38,0	RMT-3,5	112 352 240	
		TCBT/6-630/H	950	860	4,9	2,8	62	13000	38,5	RMT-8	112 352 241	
		TCBT/6-710/L	900	1080	5,7	3,3	66	15800	46,0	—	112 352 264	
		TCBT/6-710/H	910	1300	5,2	3,0	69	17800	46,0	—	112 352 265	
	TCBT/6-800/L	950	1500	5,7	3,3	74	20700	57,0	—	112 352 361		
	TCBT/6-800/K	965	1800	7,1	4,1	76	23100	64,0	—	112 352 364		
	TCBT/6-800/G	960	2500	9,0	5,2	79	26100	68,0	—	112 352 366		
	TCBT/6-800/H	980	2900	10,7	6,2	80	29800	80,0	—	112 352 368		
8	TCBT/8-450/H	665	140	0,8	0,5	47	3450	20,7	RMT-1,5	112 353 571		
	TCBT/8-500/H	615	165	1,0	0,6	50	4750	24,8	RMT-1,5	112 353 671		
	TCBT/8-560/H	595	250	1,2	0,7	52	6620	33,0	RMT-1,5	112 353 771		
	TCBT/8-630/H	980	380	1,9	1,1	57	8730	38,5	RMT-3,5	112 353 871		
	TCBT/8-710/H	920	540	2,1	1,2	63	11000	46,0	—	112 353 881		
	TCBT/8-800/L	700	650	3,1	1,8	67	14000	54,0	—	112 353 891		
	TCBT/8-800/K	710	870	4,3	2,5	69	16600	57,0	—	112 353 892		
	TCBT/8-800/G	720	1100	4,8	2,8	72	19500	61,0	—	112 353 894		
	TCBT/8-800/H	720	1340	6,2	3,6	74	22500	64,0	—	112 353 896		

