

Manufacturer	Compressor	Motor Profile	Dip - Switch	Classification	DB Ver.	Profile date	From Software	Tested on 1145
Hitachi Highly	ASD102RKQA6JT6B	0	0000 0000	A	1	0418	3,25	x
Hitachi Highly	PSD162RKQA6JT6	0	0000 0000		1	0418	3,25	x
Hitachi Highly	WHP03600PRKQA7JT6	0	0000 0000		1	0418	3,25	x
Hitachi Highly	WHP03700PRKQA6JT6	0	0000 0000		1	0418	3,25	x
Hitachi Highly	WHP04000ARKQA6JT6	0	0000 0000	A	1	0418	3,25	x
Hitachi Highly	WHP04200ARKQA6JT6	0	0000 0000		1	0418	3,25	x
Hitachi Highly	WHP04200VRKQA7JT6	0	0000 0000	A	1	0418	3,25	x
Hitachi Highly	BSA8045D-A3BUA	1	0000 000I	A	1	0418	3,25	x
Panasonic	5RS102XRSQ094B1	2	0000 00IO	B	1	0418	3,25	x
Hitachi Highly	ATH356SDP-C9FQ	3 & 11	0000 00II	A	1	0418	3,26 & 3,33	x
Hitachi Highly	ASD084CKMA7JK	4	0000 0100	B / A	2 / 6	1018 / 0720	3,27 / 3,43	x
Hitachi Highly	ASD102SF-A7JT	5	0000 010I	B / A	2 / 6	1018 / 0720	3,27 / 3,43	x
Hitachi Highly	ASG133CDNB7AT	6	0000 0110	B / A	2 / 6	1018 / 0720	3,27 / 3,43	x
Toshiba	DA330A2F-20MD	7	0000 011I	B	2	1118	3,28	x
Hitachi Highly	ASC1045D-A8JT	8	0000 1000	B	2	1218	3,30	x
Hitachi Highly	ASG151CDNB7BT	9	0000 100I	B	2	1218	3,30	x
GMCC	DA131S1B-31FZ	10	0000 1010	B	3	0219	3,31	x
Panasonic	5KD184XAA21	12	0000 1100	B	3	0219	3,33	x
Hitachi Highly	WHP05600VUKQA7JT6B	13	0000 110I	B	3	1219	3,38	x
Hitachi Highly	WHP08750VCDNC9AU	14	0000 1110	B	3	1219	3,38	x
Panasonic	5RD132XDA21	15	0000 111I	B	4	0220	3,40	x
Hitachi Highly	WHP05500PUKPA6NT6	16	000I 0000		4	0220	3,40	x
Hitachi Highly	WHP05500PUKPA8LT6	16	000I 0000	B	4	0220	3,40	x
Mitsubishi	CBB130FAC	17	000I 000I	B	4	0220	3,40	x
Panasonic *1	5RS092XCD21	18	000I 0010	C	5	0520	3,42	x
GMCC	DSM180D19UDZ	20	000I 0100	C	6	0920	3,44	x
Mitsubishi	RMT5113MDE2	21	000I 010I	B	6	0920	3,44	x
Hitachi Highly	WHP07600PSDPC9KQ	11 & 22	0000 101I	B	3	0219	3,33 & 3,45	x
Hitachi Highly	WHP10200PSDPC9EQ	11 & 22	0000 101I	B	3	0219	3,33 & 3,45	x
Hitachi Highly	WHP11500VSDPC9EQ	11 & 22	0000 101I	B	3	0219	3,33 & 3,45	x
Hitachi Highly	WHP13300PSDPC9EQ	22	000I 0110	B	7	5220	3,45	x
Hitachi Highly	WHP15600ASDPC9EQ	11 & 22	0000 101I		3	0219	3,33 & 3,45	x
Hitachi Highly	WHP03240BSKNB7AT	24	000I 1000	C	8	2321	3,47	x
JIAXIPERA	VTD1070Y	25	000I 100I	C	8	2321	3,47	Do not use *2
Hitachi Highly	WHP07850VUKQA8JT6T	28	000I 1100	C	9	3921	3,48	x
GMCC	DTN210D32UFZ	30 & 37	000I 1110	C	10	4522	3,51	x
Panasonic	9RD138ZFB21	31	000I 111I	B	10	0523	3,51	x
Panasonic	9RD198ZAA21	32	0010 0000	B	10	0523	3,51	x
Panasonic	9RD220ZAA21	33	0010 000I	B	10	0523	3,51	x
Mitsubishi	RMT5111RCE3X	34	0010 0010	B	10	2223	3,51	x
Mitsubishi	RMT5115RC21X	35	0010 001I	B	10	3223	3,51	x
Secop*2	117X3005	36	0010 0100	A	11	4823	3,51	x
GMCC	EDTN210D32EEZ	30 & 37	0010 010I	B	12	1324	3,51	x
Hitachi Highly	WHP15600VSKPC9EQ	39	0010 011I	B	12	1624	3,51	x
Panasonic	1SD110ZAA41-A1	40	0010 1000	B	12	3324	3,51	x
Panasonic	1TD058XAA41	41	0010 100I	B	12	3324	3,51	x
Hitachi Highly	BSA586SDMY3FJ	42	0010 1010	B	12	3324	3,51	x

Classification terms
A - Classification that is the highest level, as LS Control A/S has performed a full range test on the compressor at our place.
B - Classification that means that LS Control A/S has supported an online tuning of a compressor under certain conditions and we expect it to work well in other application.
C - Classification that means that a customer has tuned a compressor-profile by himself, and LS Control has no knowledge about the performance.
Blank - Classification that means the compressor has the same Motor Profile as a other compressor, and that it is not been tested on the specific type of compressor.

*1 : Old motor. Not recommended for future designs
*2 : Only for custom version of 1145

Software description.	In Modbus	On label	Spread-sheet	Example
	3.31	3.31	3.31	if you read Version 3.317 in modbus or on the label, you can translate this number to the software version 3.31 in this spreadsheet.
	3.31x	3.31x	3.31	
	3.31xx	3.31xx	3.31	
3.31xxx	3.31xxx	3.31		

Value	Unit	Profile 0	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5	Profile 6	Profile 7	Profile 8	Profile 9
From database Ver.	Version	1	1	1	1	2 / 6	2 / 6	2 / 6	2	2	2
Profile Date	WEEKYEAR	1018	1018	1018	1018	1018 / 0720	1018 / 0720	1018 / 0720	1118	1218	1218
From Software version *1	Version	3,25	3,25	3,25	3,26	3,27 / 3,43	3,27 / 3,43	3,27 / 3,43	3,28	3,30	3,30
Tested on	1145	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DIP - switch	O = OFF, I = ON	0000 0000	0000 000I	0000 00IO	0000 00II	0000 0I00	0000 0I0I	0000 0I10	0000 0III	0000 I000	0000 I00I
Pol Pairs	[pol pairs]	3	2	2	2	2	2	2	2	2	2
Max. Start Current	[Arms]	4	3	4	7	4	4	5	5	4	5
Max. Run Current	[Arms]	8	5	8	14	8	8	10	11	8	10
Stator resistance	[Ohm] pr. winding	0,934	1,36	1,02	0,25	0,703	0,37	0,84	0,37	0,305	0,665
Inductance (Lq) (Lq <= 2xLd)	[mH]	12,2 @6A	9,93 @5A	20,6 @5A	5,00 @9A	9,30 @5A	14,82 @5A	13,83 @7A	4,04 @16A	6,57 @5A	10,01 @8A
Flux	[Wb]	0,128	0,106	0,749	0,17	0,118	0,0919	0,1356	1,824	0,102	0,1314
Min. Speed	[rpm]	1000	2400	900	900	1000	1000	1600	720	1200	1600
Max. Speed	[rpm]	7200	7200	6000	7200	7200	6600	7200	7200	7200	7200
Accelleration Speed	[rpm/s]	300	300	300	300	300	300	300	50	300	300
Decelerate Speed	[rpm/s]	300	300	300	300	300	300	300	50	300	300

Value	Unit	Profile 10	Profile 11	Profile 12 *2	Profile 13	Profile 14	Profile 15 *2	Profile 16	Profile 17	Profile 18 *2	Profile 19
From database Ver.	Version	2	2	2	3	3	4	4	4	5	6
Profile Date	WEEKYEAR	0219	0219	0219	1219	1219	0220	0220	0220	0520	0920
From Software version *1	Version	3,31	3,33	3,33	3,38	3,38	3,40	3,40	3,40	3,42	3,44
Tested on	1145	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
DIP - switch	O = OFF, I = ON	0000 IOIO	0000 IOII	0000 IIOO	0000 IIOI	0000 IIIO	0000 IIII	000I 0000	000I 000I	000I 00IO	000I 00II
Pol Pairs	[pol pairs]	2	2	2	3	2	3	3	3	3	2
Max. Start Current	[Arms]	4	7	4	3	6	4	4	1	2	4
Max. Run Current	[Arms]	8	14	11	6	14	9	10	6	6,5	14,7
Stator resistance	[Ohm] pr. winding	0,85	0,251	0,72	0,766	0,428	0,576	0,465	0,735	No data	0,395
Inductance (Lq) (Lq <= 2xLd)	[mH]	10,40 @3,8A	5,00 @9A	No data	11,99 @5A	7,29 @8A	No data	7,74 @5A	9,7@no load	No data	8,62
Flux	[Wb]	0,6	0,1702	No data	0,1286	0,131	No data	0,111	0,131	No data	0,21
Min. Speed	[rpm]	1080	900	900	1000	900	900	600	600	2100	1000
Max. Speed	[rpm]	7200	7200	7200	7200	7200	7200	7200	6000	7200	7200
Accelleration Speed	[rpm/s]	300	300	300	100	100	100	100	100	100	100
Decelerate Speed	[rpm/s]	300	300	300	100	100	100	100	100	100	100

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	3.31x	3.31x	3.31	
	3.31xx	3.31xx	3.31	
	3.31xxx	3.31xxx	3.31	

*2 : Some values not available in datatsheet. LS Control tunet values.

Changes on exsisting profiles:
 - From version 3.42x - Profile 4, 5 and 6 retuned for better performance

Value	Unit	Profile 20	Profile 21 *2	Profile 22	Profile 23 *2	Profile 24	Profile 25 *2	Profile 26	Profile 27	Profile 28	Profile 29
From database Ver.	Version	6	6	7	7	8	8	9	9	9	10
Profile Date	WEEKYEAR	0920	0920	5220	5220	2321	2321	3721	3721	3921	4422
From Software version *1	Version	3,44	3,44	3,45	3,45	3,47	3,47	3,48	3,48	3,48	3,51
Tested on	1145	Yes	Yes	Yes	No	Yes	Special 1145	No	No	Yes	No
DIP - switch	O = OFF, I = ON	OOOI OIOO	OOOI OIOI	OOOI OIIO	OOOI OIII	OOOI IOOO	OOOI IOOI	OOOI IOIO	OOOI IOII	OOOI IIOO	OOOI IIOI
Pol Pairs	[pol pairs]	2	2	2	2	2	2	2	2	3	3
Max. Start Current	[Arms]	4	4	7	5	4	0,7	5	5	4	4
Max. Run Current	[Arms]	10	10	16	16	9	1,5	16	16	10	14
Stator resistance	[Ohm] pr. winding	0,65	0,81	0,251	0,36	0,285	No data	0,436	0,289	0,677	0,139
Inductance (Lq) (Lq <= 2xLd)	[mH]	18,3	26,4 @6A	5,00 @9A	No data	8,14 @ 5A	No data	12,2 @ 10A	8,1 @ 15A	10,7 @ 5A	3,30 @ 14A
Flux	[Wb]	0,422	No data	0,17	0,537	0,1425	No data	No data	No data	0,1351	0,1575
Min. Speed	[rpm]	600	1200	900	900	1000	1200	720	900	900	900
Max. Speed	[rpm]	7200	7200	7200	7200	7200	4500	6660	6660	7200	6600
Accelleration Speed	[rpm/s]	100	100	100	100	100	100	100	100	100	100
Decelerate Speed	[rpm/s]	100	100	100	100	100	100	100	100	100	100

Value	Unit	Profile 30	Profile 31	Profile 32	Profile 33	Profile 34	Profile 35	Profile 36	Profile 37	Profile 38	Profile 39
From database Ver.	Version	10	10	10	10	10	10	11	12	12	12
Profile Date	WEEKYEAR	4522	0523	0523	0523	2223	3223	4823	1324	2524	1624
From Software version *1	Version	3,51	3,51	3,51	3,51	3,51	3,51	3,51	3,51	3,51	3,51
Tested on	1145	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DIP - switch	O = OFF, I = ON	OOOI IIIO	OOOI IIII	OOIO OOOO	OOIO OOOI	OOIO OOIO	OOIO OOII	OOIO OIOO	OOIO OIOI	OOIO OIIO	OOIO OIII
Pol Pairs	[pol pairs]	3	3	3	3	2	3	Reserved	3	3	4
Max. Start Current	[Arms]	4	5	5	5	4	5		4	4	4
Max. Run Current	[Arms]	12	10	10	10	10	16		9	10	20
Stator resistance	[Ohm] pr. winding	0,86	0,604	0,653	0,644	0,893	0,522		0,86	0,562	0,209
Inductance (Lq) (Lq <= 2xLd)	[mH]	12,7 @ ??A	9,4 @ 5A	6,2 @ 5A	5,8 @ 5A	20,8 @ 8A	6,62 @ 8A		12,7 @ ??A	13,0 @ ??A	3,24 @ 10A
Flux	[Wb]	0,411-0,462	No data	No data	No data	No data	No data		No data	0,182	0,088
Min. Speed	[rpm]	480	600	600	1020	600	600		480	1100	900
Max. Speed	[rpm]	7200	7200	7200	5580	7200	7200		7200	5500	7200
Accelleration Speed	[rpm/s]	60	100	100	100	100	100		60	100	100
Decelerate Speed	[rpm/s]	60	100	100	100	100	100		60	100	100

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	3.31xx	3.31xx	3.31	
	3.31xxx	3.31xxx	3.31	

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LS Control tunet values.

Changes on existing profiles:
- From version 3.42x - Profile 4, 5 and 6 retuned for better performance

Value	Unit	Profile 40	Profile 41	Profile 42	Profile	Profile	Profile	Profile	Profile	Profile
From database Ver.	Version	12	12	12						
Profile Date	WEEKYEAR	3324	3324	3324						
From Software version *1	Version	3,51	3,51	3,51						
Tested on	1145	Yes	Yes	Yes						
DIP - switch	O = OFF, I = ON	OOIO IOOO	OOIO IOOI	OOIO IOIO						
Pol Pairs	[pol pairs]	3	2	2						
Max. Start Current	[Arms]	3	3	3						
Max. Run Current	[Arms]	7	6	6						
Stator resistance	[Ohm] pr. winding	2,41	2,01	1,79						
Inductance (Lq) (Lq <= 2xLd)	[mH]	18,0 @ 4A	17,9 @ 4A	12,85 @ 4A						
Flux	[Wb]	No Data	No Data	0,1205						
Min. Speed	[rpm]	720	1200	2000						
Max. Speed	[rpm]	6600	7200	7200						
Accelleration Speed	[rpm/s]	100	100	100						
Decelerate Speed	[rpm/s]	100	100	100						

Value	Unit	Profile	Profile	Profile	Profile	Profile	Profile	Profile	Profile	Profile
From database Ver.	Version									
Profile Date	WEEKYEAR									
From Software version *1	Version									
Tested on	1002/1145/both									
DIP - switch	O = OFF, I = ON									
Pol Pairs	[pol pairs]									
Max. Start Current	[Arms]									
Max. Run Current	[Arms]									
Stator resistance	[Ohm] pr. winding									
Inductance (Lq) (Lq <= 2xLd)	[mH]									
Flux	[Wb]									
Min. Speed	[rpm]									
Max. Speed	[rpm]									
Accelleration Speed	[rpm/s]									
Decelerate Speed	[rpm/s]									

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	3.31xxx	3.31xxx	3.31	

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Changes on existing profiles:
 - From version 3.42x - Profile 4, 5 and 6 retuned for better performance