Motor List Page 1/1 **LS Control A/S**

Manufactor	Compressor	Motor Profile	Dip - Switch	Classification	DB Ver.	Profile date	From Software	Tested on 1002
Hitachi Highly	ATH356SDP-C9FQ	3 & 11	OOOO OOII	A	1	0418	3,26 & 3,33	x
Hitachi Highly	WHP08750VCDNC9AU	14	OOOO IIIO	B	3	1219	3,38	x
Toshiba ***1**	DA422A3F-27M	19	OOOI OOII	C	6	0920	3,44	x
Hitachi Highly	WHP07600PSDPC9KQ	11 & 22	OOOO IOII	B	3	0219	3,33 & 3,45	x
Hitachi Highly	WHP10200PSDPC9EQ	11 & 22	OOOO IOII	B	3	0219	3,33 & 3,45	x
Hitachi Highly	WHP11500VSDPC9EQ	11 & 22	OOOO IOII	B	3	0219	3,33 & 3,45	x
Hitachi Highly	WHP13300PSDPC9EQ	22	OOOI OIIO	B	7	5220	3,45	x
Hitachi Highly	WHP15600ASDPC9EQ	11 & 22	OOOO IOII		3	0219	3,33 & 3,45	x
Panasonic	5KD240XAD21	23	OOOI OIII	B	7	5220	3,45	x
Panasonic	5VD330ZAA21	26	OOOI IOIO	C	9	3721	3,48	x
Panasonic	5VD420ZAA21	27	OOOI IOII	C	9	3721	3,48	x
Hitachi Highly	WHP32900VSKTQ9JK	29	OOOI IIOI	C	10	4422	3,51	x
Copeland	YHV046	38	OOIO OIIO	C	12	2524	3,51	x

Classification terms
A - Clasificatition 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 costumer 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 recomended for future designs
***2** : Only for custom version of 1145

Software description.	In Modbus	On label	Spreed-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 spreedsheet.
	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	1002	No	No	No	Yes	No	No	No	No	No	No
DIP - switch	O = OFF, I = ON	OOOO OOOO	OOOO OOOI	OOOO OOIO	OOOO OOII	OOOO OIOO	OOOO OIOI	OOOO OIIO	OOOO OIII	OOOO IOOO	OOOO IOOI
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
Decellerate 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	1002	No	Yes	No	No	Yes	No	No	No	No	Yes
DIP - switch	O = OFF, I = ON	OOOO IOIO	OOOO IOII	OOOO IIOO	OOOO IIOI	OOOO IIIO	OOOO IIII	OOOI OOOO	OOOI OOOI	OOOI OOIO	OOOI OOII
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
Decellerate Speed	[rpm/s]	300	300	300	100	100	100	100	100	100	100

***1 : Software description.**

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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 spreedsheet.
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	1002	No	No	Yes	Yes	No	Special 1145	Yes	Yes	No	Yes
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
Decellerate 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	1002	No	No	No	No	No	No	No	No	No	No
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
Decellerate 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 exsisting 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	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	1002	No	No	No							
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							
Decellerate Speed	[rpm/s]	100	100	100							

Value	Unit	Profile	Profile	Profile	Profile	Profile	Profile	Profile	Profile	Profile	Profile
From database Ver.	Version										
Profile Date	WEEKYEAR										
From Software version *1	Version										
Tested on	1002										
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]										
Decellerate Speed	[rpm/s]										

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	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 spreedsheet.
	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