

Name 12V1600B40S

Application Group 3B

Dataset Ref. 25°C/-; Bifrequency - 50 Hz dataset

1500/1800 Speed [rpm] Nominal power [kW] 576/608 Nominal power [bhp] 772/815 Frequency [Hz] 50/60

Exhaust Regulations Fuel-consumption optimized;

Reference conditions

No.	Description	Index	Value	Unit
6	Intake air temperature		25	°C
8	Barometric pressure		1000	mbar
9	Site altitude above sea level		100	m

0. Data-relevant engine design configuration

No.	Description	Index	Value	Unit	
8	Engine rated speed switchable		v		
	(1500/1800 rpm)		^	-	
113	Engine without sequential turbocharging		v		
	(turbochargers without cut-in/cut-out control)		^	-	
31	Engine with air-cooled charge air		х	-	

1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	Α	1500	rpm
3	Mean piston speed		7.5	m/s
4	Continuous power ISO 3046 (10% overload capability)	۸	576	kW
	(design power DIN 6280, ISO 8528)	А	370	KVV
5	Fuel stop power ISO 3046	Α	634	kW
0	Mean effective pressure (MEP)		21.92	har
٥	(Continuous power ISO 3046)		21.92	bar
0	Mean effective pressure (MEP)		24.15	la a u
9	(Fuel stop power ISO 3046)		24.15	bar

2. General Conditions (for maximum power)

iai Conditions (for maximum power)			
Description	Index	Value	Unit
Intake air depression (new filter)	Α	25	mbar
Intake air depression, max.	L	50	mbar
Exhaust back pressure	Α	85	mbar
Exhaust back pressure, max.	L	150	mbar
Fuel temperature at fuel feed connection	R	38	°C
Fuel temperature at fuel feed connection, max.		60	°C
(w/o power reduction)	L	60	C
Fuel temperature at fuel feed connection, max.	L	70	°C
Max. ambient temperature in direct vicinity		EE	0.0
of vibration damper	L	55	C
	Description Intake air depression (new filter) Intake air depression, max. Exhaust back pressure Exhaust back pressure, max. Fuel temperature at fuel feed connection Fuel temperature at fuel feed connection, max. (w/o power reduction) Fuel temperature at fuel feed connection, max. Max. ambient temperature in direct vicinity	Description Index Intake air depression (new filter) A Intake air depression, max. L Exhaust back pressure A Exhaust back pressure, max. L Fuel temperature at fuel feed connection R Fuel temperature at fuel feed connection, max. (w/o power reduction) Fuel temperature at fuel feed connection, max. L Max. ambient temperature in direct vicinity	Description Index Value Intake air depression (new filter) A 25 Intake air depression, max. L 50 Exhaust back pressure A 85 Exhaust back pressure, max. L 150 Fuel temperature at fuel feed connection R 38 Fuel temperature at fuel feed connection, max. (w/o power reduction) Fuel temperature at fuel feed connection, max. L 70 Max. ambient temperature in direct vicinity

3. Consumption

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP	В	192	a /lawh
17	(+ 5 %; EN 590; 42.8 MJ/kg)	K	192	g/kWh

BL Reference value: fuel stop power
Maximum engine power that cannot be run continuously on
some applications (stabilization reserve)
DC Reference value: continuous power
Engine power that can be run continuously under standard
conditions

> Actual value must be greater than specified value <a> Actual value must be less than specified value

IX Applicable
The module is valid for this product type
In Non-applicable
The module is not valid for this product type
IX Value not named
The value has not yet been named or will not be named

* Adequate verification not yet available (tolerance +/-10%)
** Adequate verification not yet available (tolerance +/-5%)

A Design value

Value required for the design of an external system (plant)

R Guideline value

Typical average value as information – only suitable for design purposes to a limited extent

Limit value

A value representing the lower limit/minimum value or upper limit/maximum value that may not be exceeded. Not suitable for design purposes



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Exhaust Regulations Fuel-consumption optimized;

	<u> </u>			
18	Specific fuel consumption (be) - 75 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	197	g/kWh
19	Specific fuel consumption (be) - 50 % CP	R	206	g/kWh
	(+ 5 %; EN 590; 42.8 MJ/kg)		200	g/ KWII
20	Specific fuel consumption (be) - 25 % CP	R	223	g/kWh
	(+ 5 %; EN 590; 42.8 MJ/kg)	IX.	223	g/ KVVII
56	Specific fuel consumption (be) - 100 % FSP	R	192	g/kWh
30	(+ 5 %; EN 590; 42.8 MJ/kg)	1	132	
57	Specific fuel consumption (be) - 75 % FSP	R	192	g/kWh
37	(+ 5 %; EN 590; 42.8 MJ/kg)	K	132	g/KVVII
58	Specific fuel consumption (be) - 50 % FSP	R	200	g/kWh
30	(+ 5 %; EN 590; 42.8 MJ/kg)			
59	Specific fuel consumption (be) - 25 % FSP	R	217	g/kWh
33	(+ 5 %; EN 590; 42.8 MJ/kg)	K	217	g/KVVII
73	No-load fuel consumption	R	2.1	kg/h
61	Lube oil consumption after 100 h of operation	R	<0.2	% of B
01	(B = fuel consumption per hour)	IX.	NO.2	76 OI B
62	Lube oil consumption after 100 h of operation, max.		<0.5	% of B
02	(B = fuel consumption per hour)	L	\U. 3	

4. Model-related data (basic design)

No.	Description	Index	Value	Unit
3	Engine with exhaust turbocharger (ETC) and intercooler		X	-
4	Exhaust piping, non-cooled		X	-
33	Working method: four-cycle, diesel, single-acting		X	-
34	Combustion method: direct injection		X	-
36	Cooling system: conditioned water		X	-
37	Direction of rotation: c.c.w. (facing driving end)		X	-
6	Number of cylinders		12	-
7	Cylinder configuration: V angle		90	degrees (°)
10	Bore		122	mm
11	Stroke		150	mm
12	Displacement, cylinder		1.75	liter
13	Displacement, total		21.0	liter
14	Compression ratio		17.5	-
41	Cylinder liners: wet, replaceable		X	-
24	Number of inlet valves, per cylinder		2	-
25	Number of exhaust valves, per cylinder		2	-
15	Number of turbochargers		2	-
28	Standard flywheel housing flange (engine main PTO)		01	SAE
43	Flywheel interface (DISC)		14"	-

5. Combustion air / exhaust gas

No.	Description	Index	Value	Unit
19	Charge-air temperature before cylinder	Α	50	°C
33	Charge-air flow through external air-to-air intercooler	Α	0.33	m³/s

BL Reference value: fuel stop power Maximum engine power that cannot be run continuously on some applications (stabilization reserve)
DL Reference value: continuous power Engine power that can be run continuously under standard conditions

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Exhaust Regulations Fuel-consumption optimized;

34	Charge-air temperature before external		208	°C
34	air-to-air intercooler	A	208	°C
35	Charge-air temperature after external	Δ.	50	°C
33	air-to-air intercooler	A	30	C
36	Charge-air temperature after external		65	°C
30	air-to-air intercooler, max.	L	05	C
37	Charge-air temperature after external		-15	°C
	air-to-air intercooler, min.	L	-13	
39	Pressure differential in external		130	mbar
39	air-to-air intercooler, max.	L	130	IIIDai
8	Charge-air pressure before cylinder - CP	R	2.9	bar abs
27	Charge-air pressure before cylinder - FSP	R	3.2	bar abs
9	Combustion air volume flow - CP	R	0.80	m³/s
10	Combustion air volume flow - FSP	R	0.75	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	2.1	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	2.0	m³/s
15	Exhaust temperature after turbocharger - CP	R	483	°C
16	Exhaust temperature after turbocharger - FSP	R	485	°C

6. Heat dissipation

•••••	a.co.pa			
No.	Description	Index	Value	Unit
16	Heat dissipated by engine coolant - FSP	р	R 255	LAAZ
	with oil heat, without charge-air heat	K		kW
26	Charge-air heat dissipation - CP	R	104	kW
27	Charge-air heat dissipation - FSP	R	133	kW
31	Heat dissipated by return fuel flow - CP	R	3.6	kW
32	Heat dissipated by return fuel flow - FSP	R	3.8	kW
33	Radiation and convection heat, engine - CP	R	25	kW
34	Radiation and convection heat, engine - FSP	R	25	kW

7. Coolant system (high-temperature circuit)

No.	Description	Index	Value	Unit
17	Coolant temperature	Δ.	95	°C
17	(at engine outlet to cooling equipment)	A	95	
20	Coolant temperature after engine, limit 1	L	105	°C
21	Coolant temperature after engine, limit 2	L	109	°C
25	Coolant antifreeze content, max.	L	50	%
30	Cooling equipment: coolant flow rate	А	26	m³/h
35	Coolant pump: inlet pressure, min.	L	1.4	bar
36	Coolant pump: inlet pressure, max.	L	3.5	bar
41	Pressure loss in off-engine cooling system, max.	L	1	bar
47	Breather valve (expansion tank)	R	1	bar
47	opening pressure (excess pressure)	ĸ	1	Dai
54	Cooling equipment: height above engine, max.	L	15	m
48	Breather valve (expansion tank)	D	-0.2	har
48	opening pressure (depression)	R	-0.2	bar



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Exhaust Regulations Fuel-consumption optimized;

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10. Lube oil system

No.	Description	Index	Value	Unit
1	Lube oil operating temp. before engine, from	R	87	°C
2	Lube oil operating temp. before engine, to	R	101	°C
8	Lube oil operating press. bef. engine, from	R	4.0	bar
9	Lube oil operating press. bef. engine, to	R	5.0	bar
10	Lube oil pressure before engine, alarm	L	2.6	bar
11	Lube oil pressure before engine, shutdown	L	2.4	bar
19	Lube oil fine filter (main circuit):		1	
19	number of units		1	-
20	Lube oil fine filter (main circuit):		4	
20	number of elements per unit		4	-
56	Lube-oil fine filter (main flow), particle size 1		10	μm
57	Lube-oil fine filter (main flow), filtering efficiency re 1		26	%
58	Lube-oil fine filter (main flow), particle size 2		15	μm
59	Lube-oil fine filter (main flow), filtering efficiency re 2		50	%
60	Lube-oil fine filter (main flow), particle size 3		20	μm
61	Lube-oil fine filter (main flow), filtering efficiency re 3		75	%
32	Lube oil fine filter (main circuit):		2	har
32	pressure differential, max.	L		bar

11. Fuel system

	i system			
No.	Description	Index	Value	Unit
1	Fuel pressure at engine fuel feed connection, min.		-0.5	bar
1	(when engine is starting)	L	-0.5	Dai
2	Fuel pressure at engine fuel feed connection, max.		0.5	bar
2	(when engine is starting)	L	0.5	Dai
37	Fuel supply flow, max.	Α	5.7	liter/min
1	Fuel pressure before injection pump, from	R	5.7	har
4	(high-pressure pump)	K	3.7	bar
_	Fuel pressure before injection pump, to	R	6.2	har
5	(high-pressure pump)	K	0.2	bar
8	Fuel return flow, max.	Α	5.5	liter/min
10	Fuel pressure at return connection on engine, max.	L	<0.4	bar
12	Fuel temperature differential before/after engine	R	20	K
18	Fuel fine filter (main circuit): number of units	Α	1	-
19	Fuel fine filter (main circuit): number of elements per unit	Α	1	-
68	Fuel fine filter, particle size 1		4	μm
69	Fuel fine filter, filtering efficiency re 1		99.5	%
70	Fuel fine filter, particle size 2		6	μm
71	Fuel fine filter, filtering efficiency re 2		99.8	%
72	Fuel fine filter, particle size 3		14	μm
73	Fuel fine filter, filtering efficiency re 3		99.8	%
21	Fuel fine filter (main circuit): pressure differential, max.	L	2	bar



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Exhaust Regulations Fuel-consumption optimized;

12. General operating data

	neral operating data	la dece	Malue	III:4
No.	Description	Index	Value	Unit
1	Cold start capability: air temperature (w/o starting aid, w/o preheating) - (case A)	R	-20	°C
	Additional condition (to case A):			
2	engine coolant temperature	R	-20	°C
3	Additional condition (to case A): lube oil temperature	R	-20	°C
4	Additional condition (to case A): lube oil viscosity	R	10W40	SAE
9	Cold start capability: air temperature	R	-40	°C
	(w/o starting aid, w/ preheating) - (case C)	In .	40	C
10	Additional condition (to case C):	R	32	°C
	engine coolant temperature			
11	Additional condition (to case C): lube oil temperature	R	32	°C
12	Additional condition (to case C): lube oil viscosity	R	10W40	SAE
21	Coolant preheating, heater performance (standard)	R	3	kW
22	Coolant preheating, preheating temperature, min.	L	32	°C
3506	Coolant preheating, preheating temperature, max.	L	55	°C
28	Breakaway torque (without driven machinery)	R	750	Nm
20	coolant temperature +5°C	IX.	730	INIII
30	Breakaway torque (without driven machinery)	R	450	Nm
30	coolant temperature +40°C	K	430	INIII
29	Cranking torque at firing speed (without driven machinery)		400	Non
29	coolant temperature +5°C	R	400	Nm
31	Cranking torque at firing speed (without driven machinery)	R	270	Nm
31	coolant temperature +40°C	ĸ	270	INITI
96	Starting is blocked if the engine coolant temperature is		-20	°C
30	below		-20	L .
37	High idling speed, max. (static)	L	1560	rpm
38	Limit speed for overspeed alarm / emergency shutdown	L	1800	rpm
42	Firing speed, from	R	80	rpm
43	Firing speed, to	R	120	rpm
44	Engine coolant temperature before starting full-load operation, recommended	R	60	°C
44	min.	I.	00	C
48	Minimum continuous load	R	20	%
50	Engine mass moment of inertia	R	1.548	kgm²
30	(without flywheel)	N	1.546	Kgiii
52	Standard flywheel mass moment of inertia	R	1.44	kgm²
1981	Block bending moment - SAE 0	R	6.0	kNm
1982	Block bending moment - SAE 1	R	4.5	kNm
51	Engine mass moment of inertia	R	2.988	kam²
J1	(with standard flywheel)	<u></u>		kgm²
109	Speed droop (with electronic governor) adjustable P1	R	4	%
110	Speed droop (with electronic governor) adjustable P2	R	0.4	%
95	Number of starter ring-gear teeth on engine flywheel		157	-

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Exhaust Regulations Fuel-consumption optimized;

13 Starting (electric)

Description	Index	I .	Unit
Manufacturer		Prestolite	-
Number of starter		1	-
Starter electrically redundant		-	-
Rated power per starter	R	7.5	kW
Starter, rated voltage	R	24	VDC
Rated short-circuit current per starter	L	1730	Α
Power consumption per starter	В	400	Α
(at an engine speed of 100 rpm, SAE0)	ĸ	400	А
Power consumption per starter		E40	^
(at an engine speed of 100 rpm, SAE1)	K	540	Α
Internal resistance of power supply + line resistance per starter	Α	0.008	Ω
Manufacturer		Prestolite	-
Number of starter		1	-
Starter electrically redundant		Х	-
Rated power per starter	R	7.5	kW
Starter, rated voltage	R	24	VDC
Rated short-circuit current per starter	L	1730	Α
Power consumption per starter	_	400	
(at an engine speed of 100 rpm, SAE0)	K	400	А
Power consumption per starter	_	F40	
(at an engine speed of 100 rpm, SAE1)	K	340	Α
Internal resistance of power supply + line resistance per starter	Α	0.008	Ω
Manufacturer		Prestolite	-
Number of starter		2	-
Starter electrically redundant		-	-
Rated power per starter	R	7.5	kW
Starter, rated voltage	R	24	VDC
Rated short-circuit current per starter	L	1730	Α
Power consumption per starter	В	400	^
(at an engine speed of 100 rpm, SAE0)	K	400	А
Power consumption per starter		540	
(at an engine speed of 100 rpm, SAE1)	K	540	Α
Internal resistance of power supply + line resistance per starter	Α	0.008	Ω
Generally valid data for starter		Х	-
Rated starting-attempt Duration (at +20°C ambient temperature with battery	R	3	s
Interval between starts		-	
(at rated starting-attempt duration), min.	L	5	S
Maximum acceptable starting-attempt duration	L	15	S
Interval between starts	_	60	
(when starting-attempt duration > rated starting-attempt duration)	R	60	S
Starting attempts within 30 minutes			
	11	16	1_
	Description Manufacturer Number of starter Starter electrically redundant Rated power per starter Starter, rated voltage Rated short-circuit current per starter Power consumption per starter (at an engine speed of 100 rpm, SAE0) Power consumption per starter (at an engine speed of 100 rpm, SAE1) Internal resistance of power supply + line resistance per starter Manufacturer Number of starter Starter electrically redundant Rated power per starter Starter, rated voltage Rated short-circuit current per starter Power consumption per starter (at an engine speed of 100 rpm, SAE0) Power consumption per starter (at an engine speed of 100 rpm, SAE1) Internal resistance of power supply + line resistance per starter Manufacturer Number of starter Starter, rated voltage Rated short-circuit current per starter Starter electrically redundant Rated power per starter Starter electrically redundant Rated short-circuit current per starter Power consumption per starter Starter, rated voltage Rated short-circuit current per starter Power consumption per starter Starter, rated voltage Rated short-circuit current per starter Power consumption per starter (at an engine speed of 100 rpm, SAE0) Power consumption per starter Rated starting-steep of power supply + line resistance per starter Generally valid data for starter Rated starting-attempt Duration (at +20°C ambient temperature with battery interval between starts (at rated starting-attempt duration), min. Maximum acceptable starting-attempt duration Interval between starts (when starting-attempt duration > rated starting-attempt duration)	Manufacturer Number of starter Starter electrically redundant Rated power per starter Rated short-circuit current per starter L Power consumption per starter (at an engine speed of 100 rpm, SAE0) Power consumption per starter (at an engine speed of 100 rpm, SAE1) Internal resistance of power supply + line resistance per starter Number of starter Starter electrically redundant Rated power per starter (at an engine speed of 100 rpm, SAE0) R Rated short-circuit current per starter L Power consumption per starter (at an engine speed of 100 rpm, SAE0) R Rated short-circuit current per starter (at an engine speed of 100 rpm, SAE0) Power consumption per starter (at an engine speed of 100 rpm, SAE1) Internal resistance of power supply + line resistance per starter Amanufacturer Number of starter Starter electrically redundant Rated power per starter L R R R R R R R R R R R R R R R R R R	Description Index Value Manufacturer Prestolite Number of starter 1 1 1 1 1 1 1 1 1

16. Inclinations - standard oil system (ref.: waterline)

No.	Description	Index	Value	Unit	
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Exhaust Regulations Fuel-consumption optimized;

	Longitudinal inclination, continuous max.			
15	driving end down	L	15	degrees (°)
	(Option: max. operating inclinations)			
	Longitudinal inclination, continuous max.			
17	driving end up	L	15	degrees (°)
	(Option: max. operating inclinations)			
19	Transverse inclination, continuous max.		15	degrees (°)
19	(Option: max. operating inclinations)	L	15	degrees ()

18. Capacities

10. 0	apacities			
No.	Description	Index	Value	Unit
1	Engine coolant capacity (without cooling equipment)	R	65	liter
11	On-engine fuel capacity	R	3 *	liter
	Engine oil capacity, initial filling			
14	(standard oil system)	R	72.5	liter
	(Option: max. operating inclinations)			
	Oil change quantity, max.			
20	(standard oil system)	R	64	liter
	(Option: max. operating inclinations)			
	Oil pan capacity, dipstick mark min.			
28	(standard oil system)	L	56	liter
	(Option: max. operating inclinations)			
	Oil pan capacity, dipstick mark max.			
29	(standard oil system)	L	64	liter
	(Option: max. operating inclinations)			

19. Masses / dimensions

No.	Description	Index	Value	Unit
7	Engine dry mass (with engine-mounted	В	1855 *	lea.
/	standard accessories, without coupling)	К	1855 **	kg
12	Engine mass, wet	В	1918	lea.
12	(with engine-mounted standard accessories, without coupling)	ĸ	1910	kg

20. Fan / fan cooler

No.	Description	Index	Value	Unit
3	Fan, pusher-type		X	-
18	Fan arrangement: vertical above crankshaft		X	-
9	Fan drive: mechanical via V-belt		X	-
13	Fan: speed	R	1500	rpm

21. Exhaust emissions

No. Description	Index	Value	Unit
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BL Reference value: fuel stop power Maximum engine power that cannot be run continuously on some applications (stabilization reserve)
DL Reference value: continuous power Engine power that can be run continuously under standard conditions

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1072	Emissions data sheet:	EDS16000118	
1972	Fuel-consumption optimized	ED310000118	-

22. Acoustics

	Description	1	N/-L	
No.	Description	Index	Value	Unit
	Exhaust noise, unsilenced - CP			
101	(free-field sound-pressure level Lp, 1m distance,	R	109	dB(A)
	ISO 6798, +3dB(A) tolerance)			
201	Exhaust noise, unsilenced - CP	R	Index Value R 109 R 122 R 110 R 123 R - R - R 104 R 735155e R - R 101	dB(A)
	(sound power level LW, ISO 6798, +3dB(A) tolerance)	.,		ab(/t/
	Exhaust noise, unsilenced - FSP			
102	(free-field sound-pressure level Lp, 1m distance,	R	110	dB(A)
	ISO 6798, +3dB(A) tolerance)			
202	Exhaust noise, unsilenced - FSP	R 123 R 735162e R - R 104	dB(A)	
202	(sound power level LW, ISO 6798, +3dB(A) tolerance)	IN.	125	ub(A)
	Exhaust noise, unsilenced - CP			
103	(free-field sound-pressure level Lp, 1m distance,		7251620	
103	ISO 6798)	K	7351626	-
	Spectrum No.			
	Exhaust noise,unsilenced - CP			
203	(sound power level LW, ISO 6798)	R	-	-
	Spectrum No.			
	Engine surface noise with attenuated			
400	intake noise (filter) - CP	_	104	15/11
109	(free-field sound-pressure level Lp, 1m distance,	R	104	dB(A)
	ISO 6798, +2dB(A) tolerance)			
	Engine surface noise with attenuated			
209	intake noise (filter) - CP	R	122	dB(A)
	(sound power level LW, ISO 6798, +2dB(A) tolerance)			, ,
	Engine surface noise with attenuated			
	intake noise (filter) - CP			
111	(free-field sound-pressure level Lp, 1m distance,	R	735155e	-
	ISO 6798) Spectrum No.			
	Engine surface noise with attenuated			
	intake noise (filter) - CP			
211	(sound power level LW, ISO 6798)	R	-	-
	Spectrum No.			
	Engine surface noise with attenuated			
	intake noise (intake silencer) - CP			
113	(free-field sound-pressure level Lp, 1m distance,	R	101	dB(A)
	ISO 6798, +2dB(A) tolerance)			
	Engine surface noise with attenuated			
	intake noise (intake silencer) - FSP			
114	(free-field sound-pressure level Lp, 1m distance,	R	101	dB(A)
				. ,
	ISO 6798, +2dB(A) tolerance)			



Name 12V1600B40S

Application Group 3B

Dataset Ref. 25°C/-; Bifrequency - 50 Hz dataset Speed [rpm] 1500/1800 576/608 Nominal power [kW] Nominal power [bhp] 772/815 Frequency [Hz] 50/60

Exhaust Regulations Fuel-consumption optimized;

125	Structure borne noise at engine mounting brackets			
	in vertical direction above resilient engine mounts - CP	R	735248e	-
	Spectrum No.			
126	Structure borne noise at engine mounting brackets			
	in vertical direction above resilient engine mounts - FSP	R	735247e	-
	Spectrum No			