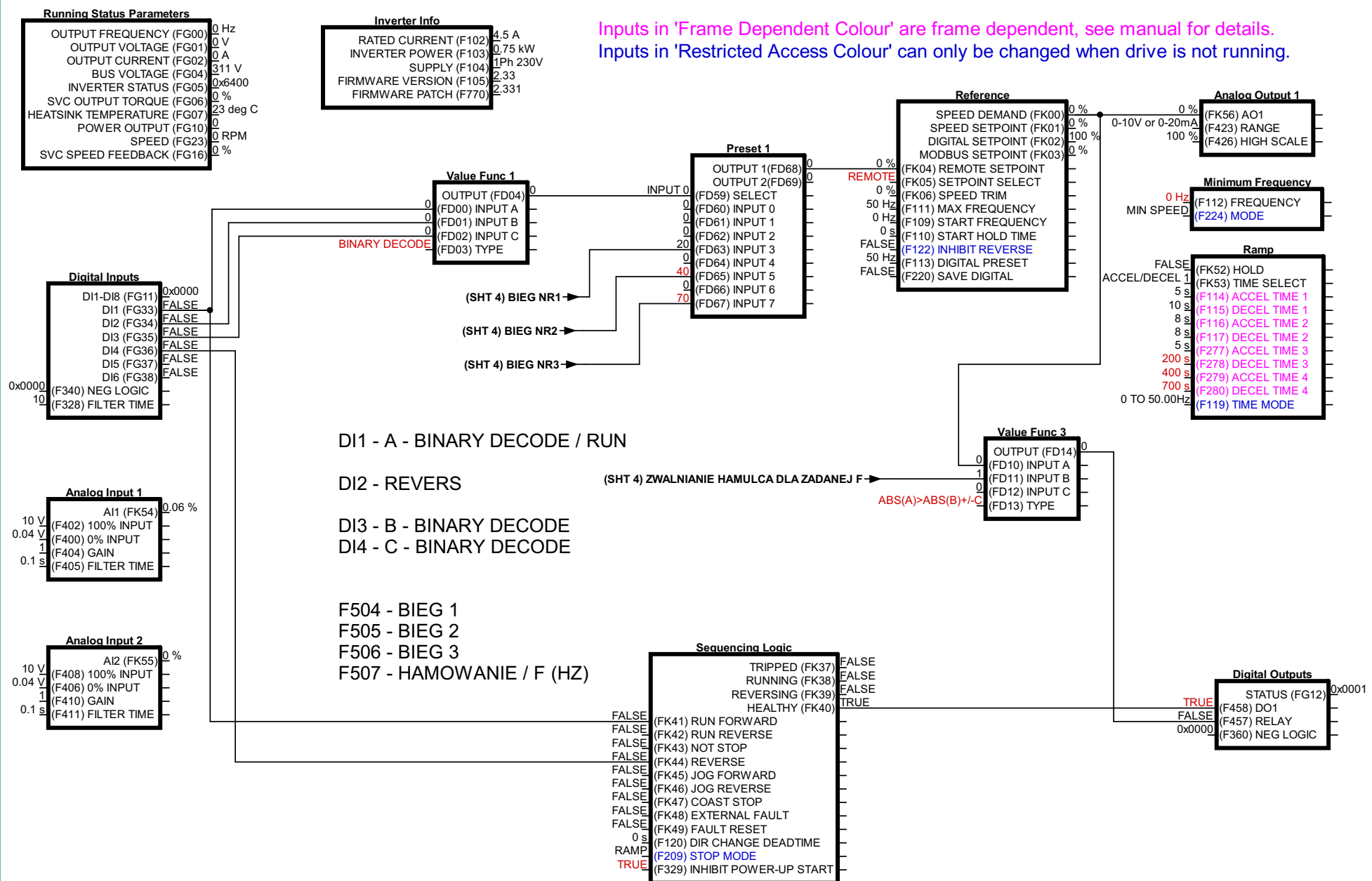


Inputs in 'Frame Dependent Colour' are frame dependent, see manual for details.  
 Inputs in 'Restricted Access Colour' can only be changed when drive is not running.



D11 - A - BINARY DECODE / RUN

D12 - REVERS

D13 - B - BINARY DECODE

D14 - C - BINARY DECODE

F504 - BIEG 1

F505 - BIEG 2

F506 - BIEG 3

F507 - HAMOWANIE / F (HZ)

(SHT 4) ZWALNIANIE HAMULCA DLA ZADANEJ F  
 ABS(A)>ABS(B)+/-C

# BASIC SPEED CONTROL

DWN			SIZE A	DWG. NO.	RFA
CHK		/1/obrot4.128	ISSUE		
APP			SCALE	SHEET	1 OF 6
EDIT	LOC				

# Motor Control

**Control Mode**

V/F  
DISABLED

(F106) CONTROL MODE  
(F800) AUTOTUNE MODE

**Motor Nameplate (IM)**

MOTOR POLES(F804) 4

50 Hz (F118) BASE FREQUENCY  
50 Hz (F810) MOTOR RATED FREQUENCY  
0.7 kW (F801) RATED POWER  
220 V (F802) RATED VOLTAGE  
3.5 A (F803) RATED CURRENT  
1390 RPM/min (F805) RATED SPEED

**Induction Motor Data**

2.876 Ohm (F806) STATOR RESISTANCE  
1.971 Ohm (F807) ROTOR RESISTANCE  
14 mH (F808) LEAKAGE INDUCTANCE  
233 mH (F809) MUTUAL INDUCTANCE

**Motor Nameplate (PMAC)**

192.4 mV/RPM (F870) BACK ELECTROMOTIVE FORCE  
56.6 mH (F871) D-AXIS INDUCTANCE  
108.1 mH (F872) Q-AXIS INDUCTANCE  
4.57 Ohm (F873) STATOR RESISTANCE

**Pattern Generator**

4000 Hz (F153) SWITCHING FREQUENCY  
TRUE (F159) RANDOM PATTERN  
0.3 s (F812) DEFLUX DELAY  
PWM ON (F859) BEHAVIOUR AT 0Hz

**Rotational to Linear Speed Conversion**

1 (F133) DRIVE RATIO OF DRIVEN SYSTEM  
0.001 m (F134) TRANSMISSION-WHEEL RADIUS

**V/F Current Boost**

FALSE (F641) ENABLE  
1.2 A (F844) NO-LOAD CURRENT BOOST

**Voltage Control**

100 % (F152) VOLTAGE AT BASE FREQUENCY  
DISABLED (F154) AUTOMATIC VOLTAGE MODE

**Slip Compensation**

0 % (F136) SLIP COMPENSATION

**Advanced Control**

SVC (F861) PMAC STARTING MODE  
5 % (F862) FREQUENCY SWITCHOVER POINT  
20 % (F876) INJECTION CURRENT WITHOUT LOAD  
0 % (F877) STARTING CURRENT  
10 % (F878) INJECTION CURRENT COMPENSATION WITHOUT LOAD CUTOFF  
1 (F823) CURRENT LOOP Kp  
1 (F825) CURRENT LOOP Ki  
50 (F479) ESTIMATOR Kp  
0.1 (F480) ESTIMATOR Ki  
0 (F475) POSITION OFFSET

**V/F Fluxing**

LINEAR (F137) V/F SHAPE  
7 (F138) LINEAR BOOST  
1.5 (F139) SQUARE BOOST  
1 Hz (F140) FREQUENCY 1  
0 % (F141) VOLTAGE 1  
5 Hz (F142) FREQUENCY 2  
13 % (F143) VOLTAGE 2  
10 Hz (F144) FREQUENCY 3  
24 % (F145) VOLTAGE 3  
20 Hz (F146) FREQUENCY 4  
45 % (F147) VOLTAGE 4  
30 Hz (F148) FREQUENCY 5  
63 % (F149) VOLTAGE 5  
40 Hz (F150) FREQUENCY 6  
81 % (F151) VOLTAGE 6

**Speed Loop Gains**

1 (F813) SPEED LOOP KP1  
0.2 (F814) SPEED LOOP KI1  
1 (F815) SPEED LOOP KP2  
0.2 (F816) SPEED LOOP KI2  
5 Hz (F817) KP KI SWITCHING FREQ 1  
50 Hz (F818) KP KI SWITCHING FREQ 2

**Torque Control**

SPEED CONTROL (FC00) MODE  
100 % (FC09) TORQUE REFERENCE  
10 % (FC17) OFFSET TORQUE  
10 % (FC23) FORWARD SPEED LIMIT  
10 % (FC25) REVERSE SPEED LIMIT  
200 % (FC30) DRIVING TORQUE LIMIT  
200 % (FC35) RE-GENERATING TORQUE LIMIT  
0.1 s (FC01) SWITCHOVER DELAY TIME  
1 s (FC02) TORQUE ACCEL/DECEL TIME  
10 % (FC16) OFFSET TORQUE CUT-OFF FREQUENCY  
3 (FC29) DRIVING TORQUE LIMIT COEFFICIENT  
3 (FC34) RE-GENERATING TORQUE LIMIT COEFFICIENT

DWN			SIZE A	DWG. NO.	RFA
CHK		/1/obrot4.128	ISSUE		
APP			SCALE	SHEET	2 OF 6
EDIT	LOC				

# Trips and Protection

## Fault History

[NEWEST] FAULT 1 (F708)	NONE
FREQUENCY 1 (F711)	0 Hz
CURRENT 1 (F712)	0 A
VOLTAGE 1 (F713)	0 V
FAULT 2 (F709)	NONE
FREQUENCY 2 (F714)	0 Hz
CURRENT 2 (F715)	0 A
VOLTAGE 2 (F716)	0 V
[OLDEST] FAULT 3 (F710)	NONE
FREQUENCY 3 (F717)	0 Hz
CURRENT 3 (F718)	0 A
VOLTAGE 3 (F719)	0 V
OVER CURRENT COUNT (F720)	0
OVER CURRENT 1 COUNT (F739)	0
OVER VOLTAGE COUNT (F721)	0
OVER TEMPERATURE COUNT (F722)	0
OVERLOAD COUNT (F723)	0

## V/Hz Protection

DISABLED	(F607) PROTECTION MODE
160 %	(F608) CURRENT LIMIT
130 %	(F609) VOLTAGE LIMIT
60 s	(F610) PROTECTION TIMEOUT

## Current Limit SVC

2	(F822) CURRENT LIMIT
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## Overcurrent 1 Protection

TRUE	(F737) ENABLE TRIP
2.5	(F738) TRIP LEVEL

## Motor Overload Protection

MODE 1	(F753) MODE
80 %	(F705) WARNING TIME
100 %	(F707) CURRENT LEVEL
60	(F750) MAX TIME

## Inverter Overload Protection

80 %	(F704) WARNING TIME
150 %	(F706) CURRENT LEVEL

## Analog Input Break Protection

DISABLED	(F741) MODE
50 %	(F742) TRIP THRESHOLD

## Input Phase Loss Protection

TRUE	(F724) ENABLE TRIP
0.5 s	(F728) FILTERING TIME CONSTANT

## Output Phase Loss Protection

FALSE	(F727) ENABLE TRIP
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## Under Voltage Protection

200 V	(F732) TRIP THRESHOLD
5 s	(F729) FILTERING TIME CONSTANT

## Over Temperature Protection

TRUE	(F726) ENABLE TRIP
5 s	(F730) FILTERING TIME CONSTANT
80 %	(F745) WARNING THRESHOLD
TRUE	(F747) AUTO-ADJUST SWITCHING FREQ
RUNNING STATE	(F702) FAN CONTROL

# Auxiliary Functions

## DC Braking

DISABLED	BRAKING THRESHOLD (F611)	380 V
1 Hz	(F600) MODE	
10 %	(F601) INITIAL FREQUENCY	
10 %	(F602) STARTING EFFICIENCY	
0.5 s	(F603) STOPPING EFFICIENCY	
0.5 s	(F604) STARTING TIME	
80 %	(F605) STOPPING TIME	
TRUE	(F612) BRAKING DUTY RATIO	
	(F622) AUTO DUTY RATIO	

## Flycatching

DISABLED	(F613) FUNCTION	
FROM MAX FREQUENCY	(F614) MODE	
20	(F615) RATE	
60 s	(F619) FAULT TIMEOUT	
100	(F627) CURRENT LIMITING	

## Auto-Start

FALSE	(F213) AFTER REPOWERED	
FALSE	(F214) AFTER FAULT RESET	
60 s	(F215) START DELAY TIME	
0	(F216) MAX RETRIES	
3 s	(F217) RESET DELAY TIME	

## VDC Adjustment

DISABLED	(F631) MODE	
380 V	(F632) TARGET VOLTAGE	

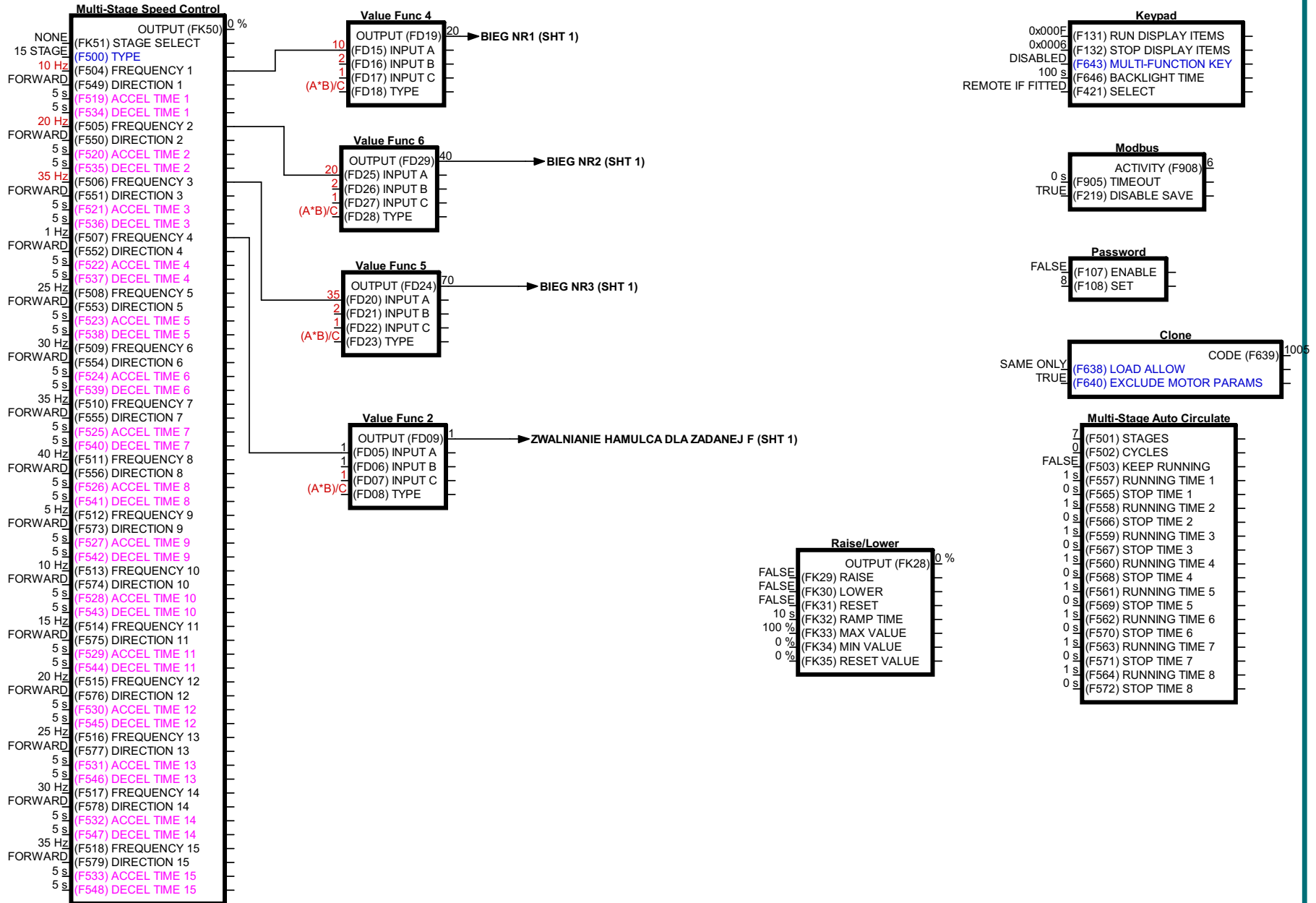
## High-Frequency Performance

MODE 1	(F650) MODE	
100	(F651) ENABLE FREQUENCY	
95	(F652) DISABLE FREQUENCY	

DWN			SIZE A	DWG. NO.	RFA
CHK		/1/obrot4.128	ISSUE		
APP			SCALE	SHEET	3 OF 6
EDIT	LOC				

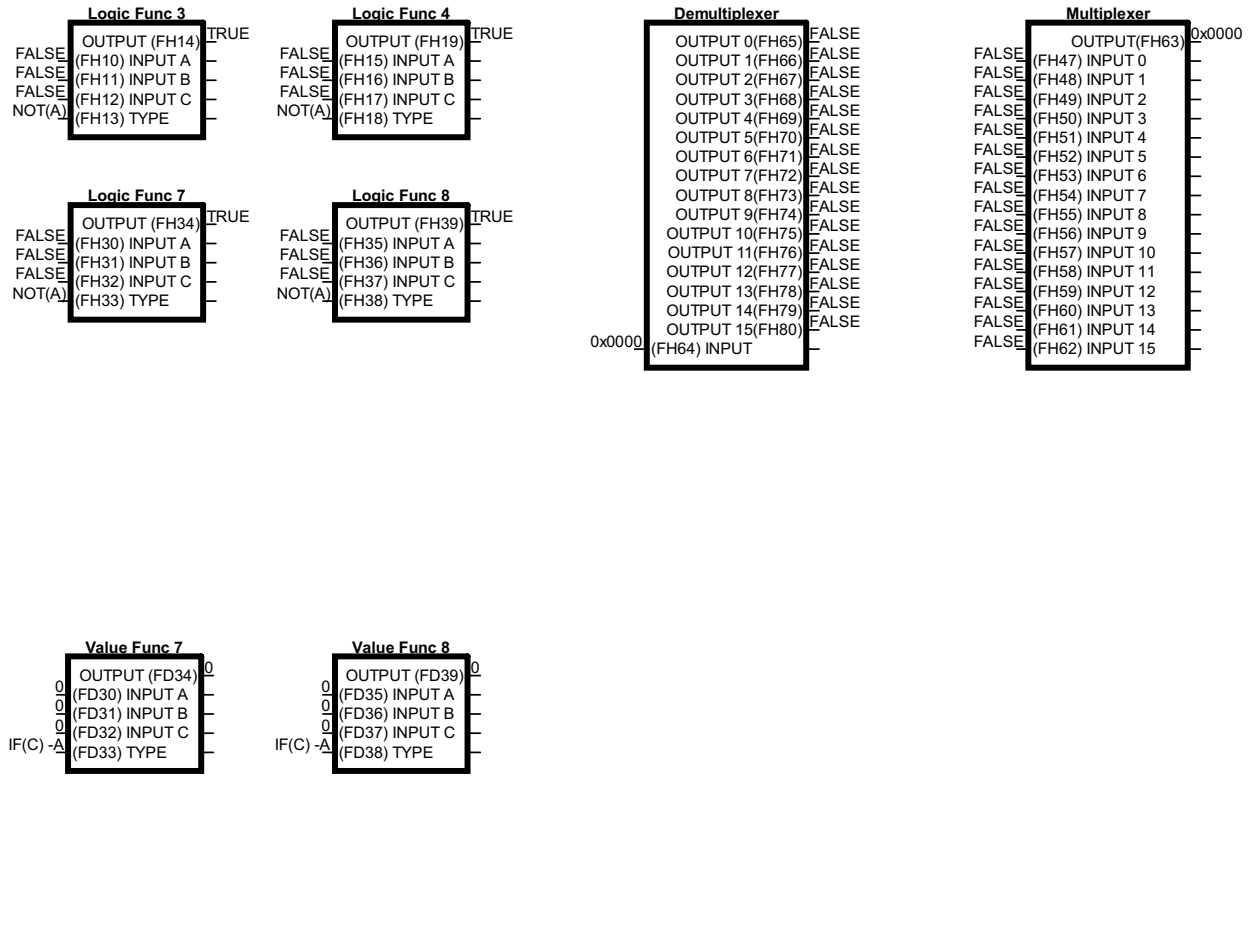
# Multi-stage Speed Control

# Other



DWN			SIZE A	DWG. NO.	RFA
CHK		/1/obrot4.128	ISSUE		
APP			SCALE	SHEET	4 OF 6
EDIT	LOC				

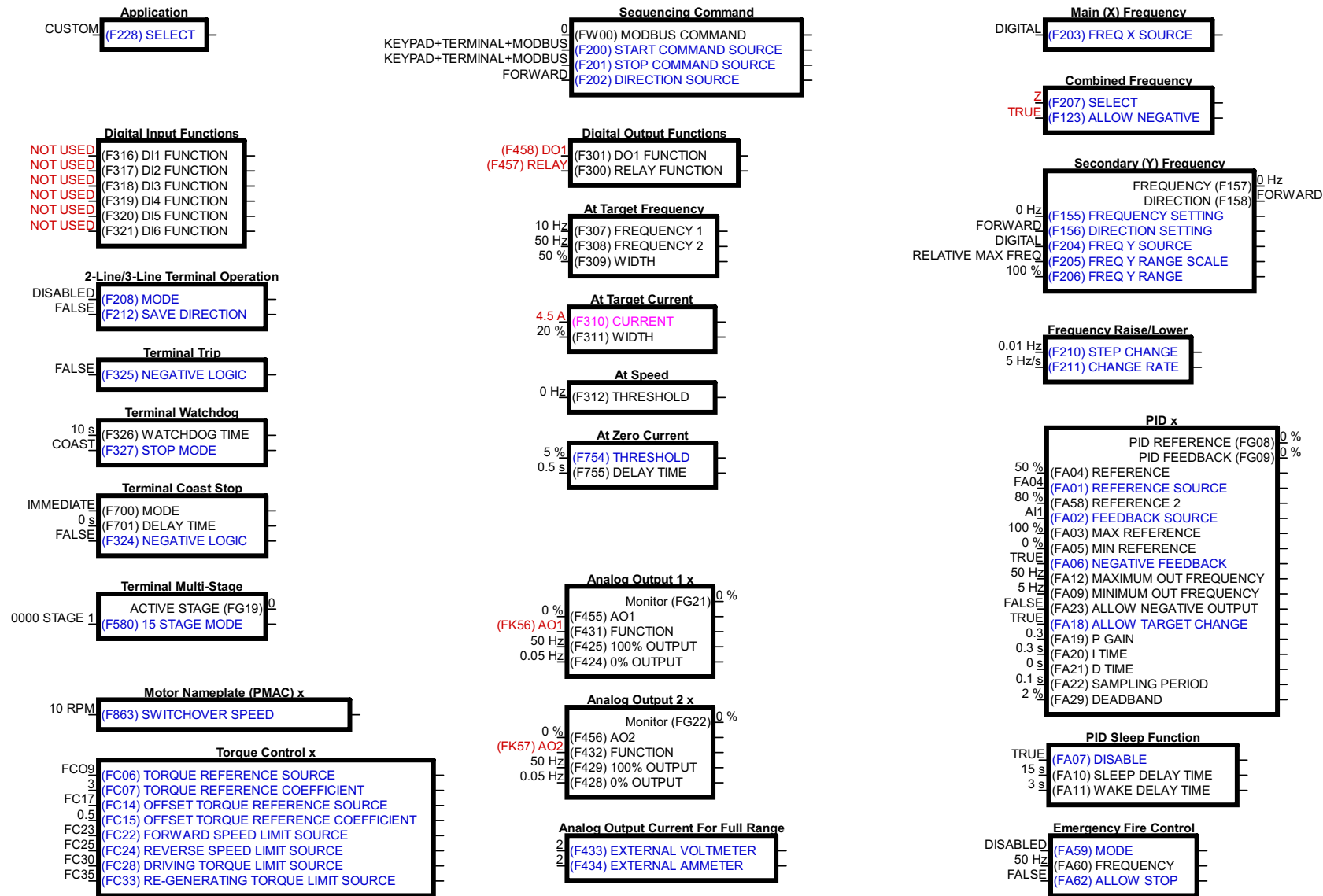
# General Purpose Blocks



DWN		SIZE A	DWG. NO.	RFA
CHK		/1/obrot4.128		ISSUE
APP		SCALE	SHEET	5 OF 6
EDIT	LOC			

# Deprecated Blocks

Avoid using these blocks, their functionality has been superseded and only are included in order to provide backward compatibility.



DWN			SIZE A	DWG. NO.	RFA
CHK		/1/obrot4.128	ISSUE		
APP			SCALE	SHEET	6 OF 6
EDIT	LOC				